

# EUROIMMUN Publications and Patents

(Link to chapters: Strg + left mouse button)

|                                     |           |
|-------------------------------------|-----------|
| <b>2025.....</b>                    | <b>6</b>  |
| Publications.....                   | 6         |
| Abstracts & Posters.....            | 7         |
| Lectures .....                      | 10        |
| Published Patent Applications ..... | 11        |
| <b>2024.....</b>                    | <b>11</b> |
| Publications.....                   | 12        |
| Abstracts & Posters.....            | 14        |
| Lectures .....                      | 17        |
| Published Patent Applications ..... | 17        |
| <b>2023.....</b>                    | <b>18</b> |
| Publications.....                   | 18        |
| Abstracts & Posters.....            | 21        |
| Lectures .....                      | 25        |
| Published Patent Applications ..... | 26        |
| <b>2022.....</b>                    | <b>26</b> |
| Publications.....                   | 27        |
| Abstracts & Posters.....            | 29        |
| Lectures .....                      | 32        |
| Published Patent Applications ..... | 33        |
| <b>2021.....</b>                    | <b>34</b> |
| Publications.....                   | 34        |
| Abstracts & Posters.....            | 36        |
| Lectures .....                      | 40        |

|                                     |           |
|-------------------------------------|-----------|
| Published Patent Applications ..... | 41        |
| <b>2020.....</b>                    | <b>42</b> |
| Publications.....                   | 42        |
| Abstracts & Posters.....            | 45        |
| Lectures .....                      | 46        |
| Published Patent Applications ..... | 46        |
| <b>2019.....</b>                    | <b>48</b> |
| Publications.....                   | 48        |
| Abstracts & Posters.....            | 51        |
| Lectures .....                      | 54        |
| Published Patent Applications ..... | 57        |
| <b>2018.....</b>                    | <b>57</b> |
| Publications.....                   | 57        |
| Abstracts & Posters.....            | 60        |
| Lectures .....                      | 63        |
| Published Patent Applications ..... | 65        |
| <b>2017.....</b>                    | <b>66</b> |
| Publications.....                   | 66        |
| Abstracts & Posters.....            | 69        |
| Lectures .....                      | 70        |
| Published Patent Applications ..... | 72        |
| <b>2016.....</b>                    | <b>73</b> |
| Publications.....                   | 73        |
| Abstracts & Posters.....            | 76        |
| Lectures .....                      | 79        |
| Published Patent Applications ..... | 80        |
| <b>2015.....</b>                    | <b>81</b> |
| Publications.....                   | 81        |

|                                     |            |
|-------------------------------------|------------|
| Abstracts & Posters.....            | 83         |
| Lectures .....                      | 84         |
| Published Patent Applications ..... | 84         |
| <b>2014.....</b>                    | <b>85</b>  |
| Publications.....                   | 85         |
| Abstracts & Posters.....            | 88         |
| Lectures .....                      | 89         |
| Published Patent Applications ..... | 90         |
| <b>2013.....</b>                    | <b>91</b>  |
| Publications.....                   | 91         |
| Abstracts & Posters.....            | 93         |
| Lectures .....                      | 94         |
| Published Patent Applications ..... | 95         |
| <b>2012.....</b>                    | <b>96</b>  |
| Publications.....                   | 96         |
| Abstracts & Posters.....            | 98         |
| Lectures .....                      | 98         |
| Published Patent Applications ..... | 99         |
| <b>2011.....</b>                    | <b>99</b>  |
| Publications.....                   | 99         |
| Abstracts & Posters.....            | 101        |
| Lectures .....                      | 103        |
| Published Patent Applications ..... | 104        |
| <b>2010.....</b>                    | <b>104</b> |
| Publications.....                   | 104        |
| Abstracts & Posters.....            | 106        |
| Lectures .....                      | 107        |
| Published Patent Applications ..... | 108        |

|                                     |            |
|-------------------------------------|------------|
| <b>2009.....</b>                    | <b>109</b> |
| Publications.....                   | 109        |
| Abstracts & Posters.....            | 110        |
| Lectures .....                      | 112        |
| Published Patent Applications ..... | 113        |
| <b>2008.....</b>                    | <b>113</b> |
| Publications.....                   | 113        |
| Abstracts & Posters.....            | 113        |
| Lectures .....                      | 115        |
| Published Patent Applications ..... | 116        |
| <b>2007.....</b>                    | <b>117</b> |
| Publications.....                   | 117        |
| Abstracts & Posters.....            | 117        |
| Lectures .....                      | 119        |
| Published Patent Applications ..... | 119        |
| <b>2006.....</b>                    | <b>119</b> |
| Publications.....                   | 119        |
| Abstracts & Posters.....            | 120        |
| Lectures .....                      | 120        |
| Published Patent Applications ..... | 120        |
| <b>2005.....</b>                    | <b>120</b> |
| Publications.....                   | 120        |
| Abstracts & Posters.....            | 121        |
| Lectures .....                      | 121        |
| Published patent applications ..... | 121        |
| <b>2004.....</b>                    | <b>122</b> |
| Publications.....                   | 122        |
| Abstracts & Posters.....            | 122        |

Published Patent Applications ..... 123

2003..... 123

Publications..... 123

Published Patent Applications ..... 124

2002..... 124

Publications..... 124

Abstracts & Posters..... 124

## Publications

1. Ansah-Dico S et al. **The role of autoantibodies in post-chikungunya viral arthritis disease severity.** Microbiol Spectr 13(4):e0265624 (2025). DOI: 10.1128/spectrum.02656-24.
2. Breuer A et al. **Coexistence of CN1A autoantibodies in GAD65 encephalitis exacerbates neurodegeneration : Novel autoantibodies in GAD65 encephalitis.** J Neuroinflammation 22(1):194 (2005). DOI: 10.1186/s12974-025-03521-4.
3. Buffagni V et al. **Case report: Suspected "stiff dog syndrome" in a Maltese dog.** Front Vet Sci 12:1613131 (2025). DOI: 10.3389/fvets.2025.1613131.
4. Corty M et al. **Anti-VGLUT2 autoantibodies in neurological diseases.** Brain Behav Immun 129:470-484 (2025). DOI: 10.1016/j.bbi.2025.06.014.
5. Fontana PN et al. **Applicability of a serodiagnostic line blot for idiopathic inflammatory myopathy: the muscle biopsy is not all.** Front Neurol. 15:1504260 (2025). DOI: 10.3389/fneur.2024.1504260.
6. Hegelmaier T et al. **Chimeric antigen receptor T cells in treatment-refractory DAGLA antibody-associated encephalitis.** Med 6(9):100776 (2025). DOI: 10.1016/j.medj.2025.100776.
7. Heidemann PL et al. **Autoantibodies against TRIM46 identified in a dog suffering from suspected meningoencephalomyelitis of unknown origin.** J Smal Anim Pract [online ahead of print]: 1-7 (2025). DOI: 10.1111/jsap.13911.
8. Ibrahimová M et al. **Preliminary evaluation of a new prototype interferon-gamma release assay for the detection of *Mycobacterium tuberculosis*–specific T-cell responses in patients with tuberculosis.** Folia Microbiol (Praha) 70(2):493-503 (2025). DOI: 10.1007/s12223-025-01252-w.
9. Jeziorska M et al. **Cytokine Profile and Early Immune Response to SARS-CoV-2 in Occupationally Lead-Exposed Individuals: A Cross-Sectional Study.** Toxicol Lett 412:182-190 (2025). DOI: 10.1016/j.toxlet.2025.08.008.
10. Kawaguchi N et al. **Comparison of the sensitivity of anti-acetylcholine receptor enzyme-linked immunosorbent assay and radioimmunoassay in different treatment periods.** Clin Exp Neuroimmunol (2025). DOI: 10.1111/cen3.12833.
11. Kreye J et al. **Specific viral antibodies associate with anti-NMDAR encephalitis after herpes simplex encephalitis.** Brain Behav Immun 130:106073 (2025). DOI: 10.1016/j.bbi.2025.106073.
12. Kuehl M et al. **Pathology-oriented multiplexing enables integrative disease mapping.** Nature 644(8076):516-526 (2025). DOI: 10.1038/s41586-025-09225-2.
13. Neumann FAO et al. ***Pneumocystis jirovecii* pneumonia: The potential of KEX1, MSG1, and MSG2 as key antigens in cytokine release assays.** Diagnostics 15(7):793 (2025). DOI: 10.3390/diagnostics15070793.
14. Oliveira FGC et al. **The effect of COVID-19 vaccination on serum levels of anti-Müllerian hormone in women of reproductive age.** JBRA Assist Reprod 29(2):219-227 (2025). DOI: 10.5935/1518-0557.20240098.
15. Pache F et al. **Broad analysis of serum and intrathecal antimicrobial antibodies in multiple sclerosis underscores unique role of Epstein-Barr virus.** Neurol Neuroimmunol Neuroinflamm 12(1):e200332 (2025). DOI: 10.1212/NXI.0000000000200332.
16. Pigors M et al. **Anti-laminin  $\beta 4$  IgG drives tissue damage in anti-p200 pemphigoid and shows interactions with laminin  $\alpha 3$  and  $\gamma 1/2$  chains.** J Invest Dermatol 145(4):821-830.e3 (2025). DOI: 10.1016/j.jid.2024.08.004.

17. Schwarzlose-Schwarck S et al. **Evaluation of three novel antigens and costimulatory agents for improvement of M. Tuberculosis specific interferon gamma release assays.** BMC Infect Dis 25(1):188 (2025). DOI: 10.1186/s12879-025-10577-3.
18. Vorasoot N et al. **DAGLA autoantibody experience at Mayo Clinic.** J Neurol 272(7):460 (2025). DOI: 10.1007/s00415-025-13197-8.
19. Zeng Z et al. **Identification of nuclear valosin-containing-protein-like as a target of anti-nuclear autoantibodies in systemic sclerosis.** Front Med 11:1477365 (2025). DOI: 10.3389/fmed.2024.1477365.
20. Zieba-Domalik MJ et al. **Association between vulvar lichen sclerosus and celiac disease in women.** Ginekol Pol 96(5):342-347 (2025). DOI: 10.5603/gpl.103181.
21. Zieba-Domalik MJ et al. **Associations vulvar lichen sclerosus with autoimmune thyroid diseases.** Ginekol Pol 96(4):235-240 (2025). DOI: 10.5603/gpl.103145.

## Abstracts & Posters

1. Arlt FA et al. **Septin autoimmunity beyond SEPTIN5 and SEPTIN7 in neurological diseases.** FASEB Science Research Conferences – Septins: Spatial Regulators of Cell Biology, Niagara Falls, NY, USA (2025).
2. Arlt FA et al. **Neuropathy with autoantibodies against septin multimers in PNS myelin mimicking lower motor neuron disease.** 77th Annual Meeting of the American Academy of Neurology (AAN), San Diego, USA (2025).
3. Benning S et al. **Detection of immune response to Rubella antigen using an anti-Rubella IgM ELISA and a newly designed anti-Rubella IgG ELISA.** 9th European Congress of Virology (ECV), Dubrovnik, Croatia (2025).
4. Benning S et al. **Detection of immune response to Rubella antigen using an anti-Rubella IgM ELISA and a newly designed anti-Rubella IgG ELISA.** Congress of the European Society of Clinical Microbiology and Infectious Diseases (ESCMID Global), Vienna, Austria (2025).
5. Canedo Campos Schettino I et al. **Analysis of IgG reactivity to different Epstein-Barr virus antigens in Brazilian patients with multiple sclerosis.** 26th Annual Meeting of the Brazilian Committee for Treatment and Research in Multiple Sclerosis (BCTRIMS), Sao Paulo, SP, Brazil (2025).
6. Cepus JS et al. **Lösliches SIGLEC-1 im Serum als Typ I-Interferon Biomarker beim SLE.** 53. Kongress der Deutschen Gesellschaft für Rheumatologie und Klinische Immunologie (DGRh), Wiesbaden, Germany (2025).
7. Confettura AD et al. **Chemiluminescence immunoassays support categorization of Alzheimer's disease-related biomarker profiles according to the ATN system.** International Conference on Alzheimer's and Parkinson's Diseases (AD/PD), Vienna, Austria (2025).
8. Confettura AD et al. **Methodological validation of four ChLIAs for Alzheimer's disease-related biomarker detection in CSF.** International Conference on Alzheimer's and Parkinson's Diseases (AD/PD), Vienna, Austria (2025).
9. Cosgun Yet al. **Performance of new nucleoprotein-based ELISAs for serodiagnosis of acute Crimean-Congo hemorrhagic fever virus infections.** 27th Annual Conference of the European Society for Clinical Virology (ESCV), Thessaloniki, Greece (2025).
10. Deerberg A et al. **Development of a prototype Bridge ELISA for detection of anti-nephrin autoantibodies.** 17th Dresden Symposium on Autoantibodies, Dresden, Germany (2025).
11. Egger M et al. **Evaluation of a novel antigen ELISA for the diagnostics of invasive pulmonary aspergillosis.** Infection Week and Microbiological Spring Meeting (SVIM), Örebro, Sweden (2025).

12. Elleuche S et al. **Evaluation of a new prototype ELISA for the detection of autoantibodies against IA2 in patients with type 1 diabetes mellitus.** 18th International Conference on Advanced Technologies & Treatment for Diabetes (ATTD), Amsterdam, The Netherlands (2025).
13. Elleuche S et al. **Performance of a new prototype ELISA for the detection of autoantibodies against GAD65 in patients with Type 1 diabetes mellitus.** 18th International Conference on Advanced Technologies & Treatment for Diabetes (ATTD), Amsterdam, The Netherlands (2025).
14. Fêo AFJ et al. **Interlaboratory precision of a cell-based assay by indirect immunofluorescence for the detection of anti-MuSK IgG antibodies [Avaliação Interlaboratorial da Técnica de Imunofluorescência Indireta Baseada em Células (CBA-IFT) para Detecção de Autoanticorpos anti-MuSK na Miastenia Gravis].** 57th Brazilian Congress of Clinical Pathology and Laboratory Medicine (CBPC/ML), Rio de Janeiro, Brazil (2025).
15. Frade VV, et al. **Interlaboratory reproducibility of a multiparametric Immunoblot for IgG antibodies against food antigens in vegetarian profile [Reprodutibilidade Interlaboratorial de um Immunoblot Multiparamétrico para Anticorpos IgG contra Antígenos Alimentares em Perfil Vegetariano].** 57th Brazilian Congress of Clinical Pathology and Laboratory Medicine (CBPC/ML), Rio de Janeiro, Brazil (2025).
16. Grage-Griebenow E et al. **Antibody detection in the context of vaccination against tick-borne encephalitis virus using two IVDR approved ELISAs.** 77. Jahrestagung der Deutschen Gesellschaft für Hygiene und Mikrobiologie (DGHM), Jena, Germany (2025).
17. Hidalgo R et al. **Multiparametric immunoblot panel: Expanding the diagnostic capacity in the investigation of neuronal autoantibodies [Painel multiparamétrico por imunoblot: Ampliação da capacidade diagnóstica na investigação de autoanticorpos neuronais].** 57th Brazilian Congress of Clinical Pathology and Laboratory Medicine (CBPC/ML), Rio de Janeiro, Brazil (2025).
18. Hoffmann K et al. **Newly developed ELISA for detection of circulating calprotectin in serum and plasma.** 17th Dresden Symposium on Autoantibodies, Dresden, Germany (2025).
19. Hohensee S et al. **Antibody detection in the context of vaccination against tick-borne encephalitis virus using two IVDR approved ELISAs.** 9th European Congress of Virology (ECV), Dubrovnik, Croatia (2025).
20. Hohensee S et al. **Sensitivity of two IVDR approved ELISAs for detection of anti-tick-borne encephalitis virus antibodies.** 9th European Congress of Virology (ECV), Dubrovnik, Croatia (2025).
21. Jäger D et al. **Detection of myasthenia gravis autoantibodies using an innovative cell-based immunofluorescence assay.** 17th Dresden Symposium on Autoantibodies, Dresden, Germany (2025).
22. Klemens JM et al. **Detection of anti-Oropouche virus-specific IgM in a patient panel from a Zika virus epidemic area in 2015 / 2016.** 27th Annual Conference of the European Society for Clinical Virology (ESCV), Thessaloniki, Greece (2025).
23. Klemens JM et al. **ELISA-based determination of anti-mumps IgG reveals a prevalence of approximately 80% in adult and pediatric sera from Brazil and Germany.** 27th Annual Conference of the European Society for Clinical Virology (ESCV), Thessaloniki, Greece (2025).
24. Klemens JM et al. **Mayaro virus and Chikungunya virus IgM and IgG testing in parallel improves diagnosis of acute Mayaro virus infections.** Conference of the Association of Public Health Laboratories (APHL): ID Lab Con, Pasadena, USA (2025).
25. Klemens JM et al. **Detection of anti-Oropouche virus-specific IgM in a patient panel from a Zika virus epidemic area in 2015 / 2016.** Congress of the European Society of Clinical Microbiology and Infectious Diseases (ESCMID Global), Vienna, Austria (2025).



26. Lindemann T et al. **New real-time PCR test for APOE genotyping in Alzheimer's patients before anti-amyloid therapy.** International Conference on Alzheimer's and Parkinson's Diseases (AD/PD), Vienna, Austria (2025).
27. Lindemann T et al. **Development of a prototype ChLIA and a research-use only ELISA for the detection of light chain neurofilament (NfL) in CSF.** International Conference on Alzheimer's and Parkinson's Diseases (AD/PD), Vienna, Austria (2025).
28. Mindorf S et al. **Evaluation of a tissue-based assay for KLHL11 autoantibodies in paraneoplastic neurological syndromes.** 17th Dresden Symposium on Autoantibodies, Dresden, Germany (2025).
29. Mindorf S et al. **Detection of GFAP autoantibodies using a new cell-based indirect immunofluorescence assay.** 17th Dresden Symposium on Autoantibodies, Dresden, Germany (2025).
30. Montallier C et al. **Development and evaluation of i-Tracker Risankizumab and i-Tracker Anti-Risankizumab kits: fast and innovative chemiluminescent assays for the monitoring of patients treated with Risankizumab.** 38th Annual Meeting of the Association of Medical Laboratory Immunologists (AMLI), Minneapolis, USA (2025).
31. Muranen P et al. **Detection of dermatophytes in culture-negative and contaminated nail samples using molecular diagnostics.** 36th Nordic Congress of Dermatology & Venereology (NCDV), Helsinki, Finland (2025).
32. Otto C et al. **Detection of elevated intrathecal production of antibodies against VCA of EBV supports diagnosis of PCNS-PTLD.** 77. Jahrestagung der Deutschen Gesellschaft für Hygiene und Mikrobiologie (DGHM), Jena, Germany (2025).
33. Pache F et al. **High seroprevalence but low frequency of intrathecal anti-EBV IgG suggests a unique role of EBV infection in MS.** 77. Jahrestagung der Deutschen Gesellschaft für Hygiene und Mikrobiologie (DGHM), Jena, Germany (2025).
34. Pfautsch S et al. **Evaluation of the diagnostic performance of a new ELISA for the detection of anti-Trichinella antibodies.** Joint Parasitology Pring Meeting (BSP, DGP, SSTMP), Würzburg, Germany (2025).
35. Resende CF et al. **Comparative analysis of ELISA kits for the detection of galactomannan antigen in the laboratory diagnosis of aspergillosis [Análise comparativa de kits ELISA para detecção do antígeno galactomanana no diagnóstico laboratorial da aspergilose].** 57th Brazilian Congress of Clinical Pathology and Laboratory Medicine (CBPC/ML), Rio de Janeiro, Brazil (2025).
36. Sabalza M et al. **Performance assessment of a newly developed chemiluminescence assay for anti-CCP determination.** Meeting of the Association for Diagnostics & Laboratory Medicine (ADLM), Chicago, USA (2025).
37. Sabalza M et al. **Antibody detection in the context of vaccination against tick-borne encephalitis virus using two IVDR approved ELISAs.** ASM Microbe, Los Angeles, USA (2025).
38. Sabalza M et al. **Detection of anti-Oropouche virus-specific IgM in a patient panel from a Zika virus epidemic area in 2015 / 2016.** ASM Microbe, Los Angeles, USA (2025).
39. Sabalza M et al. **Detection of anti-Oropouche virus-specific IgM in a patient panel from a Zika virus epidemic area in 2015 / 2016.** Meeting of the Association for Diagnostics & Laboratory Medicine (ADLM), Chicago, USA (2025).
40. Sabalza M et al. **ELISA-based determination of anti-mumps virus IgG reveals a prevalence of 80 percent in sera obtained in Brazil.** Meeting of the Association for Diagnostics & Laboratory Medicine (ADLM), Chicago, USA (2025).
41. Sabalza M et al. **Development and evaluation of i-Tracker Risankizumab and i-Tracker Anti-Risankizumab kits: fast and innovative chemiluminescent assays for the monitoring**

**of patients treated with Risankizumab.** Meeting of the Association for Diagnostics & Laboratory Medicine (ADLM), Chicago, USA (2025).

42. Sabater L et al. **Sensitive and specific detection of anti-IgLON5 autoantibodies using a standardized cell-based assay.** 17th Dresden Symposium on Autoantibodies, Dresden, Germany (2025).
43. Schreurs MWJ et al. **Comparison of anti-NMDAR antibody titers in CSF and serum measured by cell-based assay and immunohistochemistry.** 17th Dresden Symposium on Autoantibodies, Dresden, Germany (2025).
44. Schreurs MWJ et al. **Evaluation of a cell-based assay for the standardized determination of autoantibodies against IgLON5.** 17th Dresden Symposium on Autoantibodies, Dresden, Germany (2025).
45. Silvestric-Scheel M et al. **Role of assay-specific cut-offs for measurement of fecal calprotectin using chemiluminescence assays.** 17th Dresden Symposium on Autoantibodies, Dresden, Germany (2025).
46. Silvestric-Scheel M et al. **Newly developed ChLIA for detection of fluid calprotectin in serum.** 17th Dresden Symposium on Autoantibodies, Dresden, Germany (2025).
47. Vink C et al. **Relevance of anti-PLA2R levels in therapy decision and prediction of therapy outcome using cyclophosphamide and steroids treatment in patients with membranous nephropathy.** 38th Biennale Congress of the Nordic Society of Nephrology (NSN), Oslo, Norway (2025).
48. Weiss J et al. **Parallel application of two ELISAs: Anti-BP230 and anti-BP180-NC16A-4X are the most sensitive serological markers for the diagnosis of bullous pemphigoid.** 38th Annual Meeting of the Association of Medical Laboratory Immunologists (AMLI), Minneapolis, USA (2025).
49. Weiss J et al. **Mayaro virus and Chikungunya virus IgM and IgG testing in parallel improves diagnosis of acute Mayaro virus infections.** 38th Annual Meeting of the Association of Medical Laboratory Immunologists (AMLI), Minneapolis, USA (2025).
50. Weiss J et al. **Evaluation of the performance of the EUROIMMUN anti-GABA<sub>A</sub>R IFA in patients with suspected autoimmune anti-GABA<sub>A</sub>R encephalitis.** World Encephalitis Day Conference, Jacksonville, USA (2025).
51. Weiss J et al. **Detection of KLHL11 autoantibodies using a new cell-based indirect immunofluorescence assay.** World Encephalitis Day Conference, Jacksonville, USA (2025).
52. Weiss J et al. **Detection of autoantibodies in bullous pemphigoid, epidermolysis bullosa acquisita, and pemphigus vulgaris by indirect immunofluorescence with a BIOCHIP Mosaic.** 38th Annual Meeting of the Association of Medical Laboratory Immunologists (AMLI), Minneapolis, USA (2025).
53. Weiss J et al. **Detection of pemphigus autoantibodies by ELISA and indirect immunofluorescence assays.** 38th Annual Meeting of the Association of Medical Laboratory Immunologists (AMLI), Minneapolis, USA (2025).

## Lectures

1. Aldag J. **ANA diagnostics – ICAP and disease specific profiles.** Kauvery CME, Chennai, India (2025).
2. Aldag J. **ANA diagnostics – ICAP and disease specific profiles.** Apollo Diagnostics CME, Hyderabad, India (2025).
3. Aldag J. **ANA diagnostics – ICAP and disease specific profiles.** LalPath Laboratories CME, Bangalore, India (2025).
4. Aldag J. **ANA diagnostics – ICAP and disease specific profiles.** Medanta CME, Delhi, India (2025).

5. Arlt FA et al. **Septin autoimmunity beyond SEPTIN5 and SEPTIN7 in neurological diseases**. FASEB Science Research Conferences – Septins: Spatial regulators of Cell Biology, Niagara Falls, NY, USA (2025).
6. Canedo Campos Schettino I et al. **EBV serology in multiple sclerosis: A profile of chronic infection**. Encontro de Atualização em Neuroimunologia (EANI), Brasília, Brazil (2025).
7. Cavalar M. **Detection of dermatophytes in culture-negative and contaminated nail samples using molecular diagnostics**. 12th Trends in Medical Mycology (TIMM-12), Bilbao, Spain (2025).
8. Dangoni Filho I et al. **Comparative profile of CSF biomarkers and APOE genotype between Alzheimer's disease variants**. XV Congresso Paulista de Neurologia, Santos, SP, Brazil (2025).
9. Den Hartog Jager CF et al. **New sesame components can improve the diagnosis of sesame allergy**. Annual Congress of the European Academy of Allergy and Clinical Immunology (EAACI), Glasgow, United Kingdom (2025).
10. Dieckmann K. **Antibody detection in the context of vaccination against tick-borne encephalitis virus using two IVDR approved ELISAs**. Meeting of the Scandinavian Network for Tick and Tick-borne Pathogen Research (SNÄFF), Ystad Sweden (2025).
11. Diering S. **Detektion von Dermatophyten in Kultur-negativen und kontaminierten Nagelproben mit Hilfe molekularer Diagnostik**. Tagung der Deutschen Dermatologischen Gesellschaft (DDG), Berlin, Germany (2025).
12. Pedaran M. **Distribution and diagnosis of acute respiratory infections (ARI)**. Fachseminar SiSEL, Senohraby, Czech Republic (2025).
13. Pedaran M. **Aspergillus fumigatus**. Online Seminar, Academy Dubai, Dubai, VAE (2025).
14. Sager A. **Paraneoplastic syndromes, autoimmune encephalitides, acquired demyelinating diseases, myasthenic syndromes: IFA reading**. 10th International Congress of the Lebanese Syndicate of Clinical Biologists (SCBL), Beirut, Lebanon (2025).
15. Stanisak A. **Complete all-in-one automation in IIFT**. Kauvery CME, Chennai, India (2025).
16. Stanisak A. **Automation in reporting of IIFT**. Apollo Diagnostics CME, Hyderabad, India (2025).
17. Stanisak A. **Importance of automation in Autoimmune Diagnosis**. LalPath Laboratories CME, Bangalore, India (2025).
18. Stanisak A. **Complete automation in IIFT**. Medanta CME, Delhi, India (2025).
19. Weiss J. **Identification of DAGLA as an autoantibody target in cerebellar ataxia**. 77th Annual Meeting of the American Academy of Neurology (AAN), San Diego, USA (2025).

## Published Patent Applications

1. Petter K et al. **Device and automated laboratory machine for incubating multiple patient samples using multiple incubation vessels**. European, Chinese and US patent application EP4494756 (filed 2023), CN119331725A (filed 2024) and US2025/0027968 (filed 2024).
2. Scharf M et al. **Method and reagents for the detection of a mammalian antibody**. US patent application US2025/0027953 (filed 2024).

# 2024

## Publications

1. Antoniello B et al. **Non-HLA autoantibodies against angiotensin II receptor 1 (AT1R) and endothelin A receptor (ETAR) in pediatric kidney transplantation.** *Int J Mol Sci* 25(21):11817 (2024). DOI: 10.3390/ijms252111817.
2. Arendt P et al. **Differentiation of Alzheimer's disease from other neurodegenerative disorders using chemiluminescence immunoassays measuring cerebrospinal fluid biomarkers.** *Front Dement* 3:1455619 (2024). DOI: 10.3389/frdem.2024.1455619.
3. Arlt FA et al. **KCNA2 IgG autoimmunity in neuropsychiatric diseases.** *Brain Behav Immun* 117:399-411 (2024). DOI: 10.1016/j.bbi.2024.01.220.
4. Biesen R et al. **Autoantikörperdiagnostik bei idiopathisch inflammatorischen Myopathien [Autoantibody diagnostics in idiopathic inflammatory myopathy].** *Z Rheumatol* 83(3):242-249 (2024). DOI: 10.1007/s00393-024-01476-0.
5. Carraro A et al. **New insights into pediatric kidney transplant rejection biomarkers: tissue, plasma and urine microRNAs compared to protocol biopsy histology.** *Int J Mol Sci* 25(3):1911 (2024). DOI: 10.3390/ijms25031911.
6. Carvalho RS et al. **Cerebrospinal fluid CXCL13 concentration for diagnosis and monitoring of neurosyphilis in people with HIV.** *AIDS* 38(5):657-668 (2024). DOI: 10.1097/QAD.0000000000003813.
7. Chang AY et al. **Development of a chikungunya arthritis disease activity score (CHIK-DAS) based on a prospective cohort study.** *J Cell Immunol* 6(6):236-246 (2024). DOI: 10.33696/immunology.6.211.
8. Dulcka A et al. **The potential coexistence of autoimmune thyroid diseases and pediatric vulvar lichen sclerosus.** *Children (Basel)* 11(2):255 (2024). DOI: 10.3390/children11020255.
9. Dulcka A et al. **The need of differential diagnosis between vulvar lichen sclerosus and autoimmune dermatoses in adolescent girls.** *Dermatol Ther (Heidelb)* 14(3):759-766 (2024). DOI: 10.1007/s13555-024-01124-0.
10. Goletz S et al. **Laminin  $\beta$ 4 is a constituent of the cutaneous basement membrane zone and additional autoantigen of anti-p200 pemphigoid.** *J Am Acad Dermatol* 90(4):790-797 (2024). DOI: 10.1016/j.jaad.2023.11.014.
11. Goletz S et al. **Sensitive and specific assay for the serological diagnosis of anti-p200 pemphigoid based on the recombinant laminin  $\beta$ 4 subunit.** *Br J Dermatol* 191(1):140-141 (2024). DOI: 10.1093/bjd/ljae136.
12. Jarius S et al. **Improving the sensitivity of myelin oligodendrocyte glycoprotein-antibody testing: exclusive or predominant MOG-IgG3 seropositivity-a potential diagnostic pitfall in patients with MOG-EM/MOGAD.** *J Neurol* 271(7):4660-4671 (2024). DOI: 10.1007/s00415-024-12285-5.
13. Kälén T et al. **SARS-CoV-2 mRNA vaccines do not worsen autoimmunity in patients with autoimmune liver diseases.** *J Autoimmun* 149:103325 (2024). DOI: 10.1016/j.jaut.2024.103325.
14. Kapoor T et al. **Prevalence of Powassan virus seropositivity among people with history of Lyme disease and non-Lyme community controls in the Northeastern United States.** *Vector Borne Zoonotic Dis* 24(4):226-236 (2024). DOI: 10.1089/vbz.2022.0030.
15. Khatib L et al. **Autoimmune cerebellar ataxia associated with anti-glutamate receptor  $\delta$ 2 antibodies: a rare but treatable entity.** *Cerebellum* 23(1):260-266 (2024). DOI: 10.1007/s12311-023-01523-7.
16. Kühnl A et al. **Relevance of anti-PLA2R levels in therapy decision and prediction of therapy outcome using cyclophosphamide and steroids treatment in patients with membranous nephropathy.** *Nephrol Dial Transplant* 39(Suppl1):i2144 (2024). DOI: 10.1093/ndt/gfae069/1332.

17. Liaskos C et al. **SAT-551 F-actin in autoimmune liver diseases: a comprehensive evaluation of diagnostic potential using a newly-developed autoimmune liver line immunoassay.** J Hepatol 80(S1):S358 (2024).
18. Lochman I et al. **Laboratory diagnosis of SARS-CoV-2 infection after the end of the COVID-19 pandemic.** Clinical Immunology and Allergology 34(1):19 (2024).
19. Miske R et al. **Identification of DAGLA as an autoantibody target in cerebellar ataxia.** J Neurol Neurosurg Psychiatry 95(11):1064-1076 (2024). DOI: 10.1136/jnnp-2024-333458.
20. Panic N et al. **A multiparametric method improves the serological characterization of inflammatory bowel diseases: Preliminary results from a multicenter Eastern Europe study.** Gastrointest Disord 6(1):152-163 (2024). DOI: 10.3390/gidisord6010011.
21. Patrikiou E et al. **Investigating the link between Helicobacter pylori infection and psoriatic disease: an immunological study.** Immunol Res 73(1):22 (2024). DOI: 10.1007/s12026-024-09569-3.
22. Peter E et al. **Anti-RGS8 paraneoplastic cerebellar ataxia is preferentially associated with a particular subtype of Hodgkin's lymphoma.** J Neurol 271(10):6839-6846 (2024). DOI: 10.1007/s00415-024-12618-4
23. Pigors M et al. **Bullous pemphigoid induced by IgG targeting type XVII collagen non-NC16A/NC15A extracellular domains is driven by Fc gamma receptor- and complement-mediated effector mechanisms and is ameliorated by neonatal Fc receptor blockade.** J Pathol 262(2):161-174 (2024). DOI: 10.1002/path.6220.
24. Rey G et al. **Automated ELISA for potency measurements of therapeutic antibodies and antibody fragments.** J Pharm Biomed Anal 245:116141 (2024). DOI: 10.1016/j.jpba.2024.116141.
25. Römpler K et al. **Evaluation of the EUROIMMUN automated chemiluminescence immunoassays for measurement of four core biomarkers for Alzheimer's disease in cerebrospinal fluid.** Pract Lab Med 41:e00425 (2024). DOI: 10.1016/j.plabm.2024.e00425.
26. Talucci I et al. **Molecular dissection of an immunodominant epitope in Kv1.2-exclusive autoimmunity.** Front Immunol 15:1329013 (2024). DOI: 10.3389/fimmu.2024.1329013.
27. Tegtmeier J et al. **Reactivity against the BP180 ectodomain in patients with bullous pemphigoid, mucous membrane pemphigoid, multiple sclerosis and Parkinson disease.** Exp Dermatol 33(7):e15125 (2024). DOI: 10.1111/exd.15125.
28. Traversa D et al. **Seropositivity for Toxoplasma gondii in cats with clinical signs and living in households with women of childbearing age.** Vet Parasitol 332:110313 (2024). DOI: 10.1016/j.vetpar.2024.110313.
29. Veling M et al. **Rapid Candida auris screening and echinocandins resistance detection through an automated high-throughput extraction and real-time PCR solution.** Lab Matters 2:12 (2024).
30. Venkataraman I et al. **Performance assessment of the new EUROLINE Neurologic Syndrome 15 Ag (IgG) for the detection of neurologic antibodies.** Neurology 103(7\_Supplement\_1):S78-S79 (2024). DOI: 10.1212/01.wnl.0001051516.09427.14.
31. Von Possel R et al. **Performance analysis of serodiagnostic tests to characterize the incline and decline of the individual humoral immune response in COVID-19 patients: Impact on diagnostic management.** Viruses 16(1):91 (2024). DOI: 10.3390/v16010091.
32. Wendt R et al. **Serum uromodulin associates with kidney function and outcome in a cohort of hospitalised COVID-19 patients.** Sci Rep 14(1):25420 (2024). DOI: 10.1038/s41598-024-76372-3.
33. Zonta MA et al. **Prevalence of sexually transmitted infections and human papillomavirus in cervical samples from incarcerated women in São Paulo, Brazil: a retrospective single-center study.** Front Public Health 12:1353845 (2024). DOI: 10.3389/fpubh.2024.1353845.

## Abstracts & Posters

1. Arendt P et al. **Performance assessment of novel chemiluminescence immunoassays for the detection of specific biomarkers for Alzheimer's disease.** Alzheimer's Association International Conference (AAIC), Philadelphia, USA (2024).
2. Arendt P et al. **Performance assessment of novel chemiluminescence immunoassays for the detection of specific biomarkers for Alzheimer's disease.** International Conference on Alzheimer's and Parkinson's Diseases (AD/PD), Lisbon, Portugal (2024).
3. Benning S et al. **Detection of immune response to Rubella antigen using an anti-Rubella IgM ELISA and a newly designed anti-Rubella IgG ELISA.** Clinical Virology Symposium (CVS) of the American Society for Microbiology (ASM), Long Beach, CA, USA (2024).
4. Benning S et al. **Detection of immune response to Rubella antigen using an anti-Rubella IgM ELISA and a newly designed anti-Rubella IgG ELISA.** 26th Annual Conference of the European Society for Clinical Virology (ESCV), Frankfurt, Germany (2024).
5. Bestmann Y et al. **Serodiagnosis of anti-glomerular basement membrane disease using a newly developed chemiluminescence immunoassay.** 14th International Congress on Autoimmunity (ICA), Ljubljana, Slovenia (2024).
6. Carvalho RS et al. **CONCENTRAÇÃO DA QUIMIOCINA CXCL13 NO LÍQUIDO CEFALORRAQUIDIANO PARA DIAGNÓSTICO E MONITORAMENTO DA NEUROSSÍFILIS EM PESSOAS VIVENDO COM O HIV.** IX Congresso de Infectiologia do Estado do RIO de Janeiro (Infecto RIO), Rio de Janeiro, Brazil (2024).
7. Carvalho RS et al. **UTILIZAÇÃO DA CONCENTRAÇÃO DE CXCL13 NO LÍQUIDO CEFALORRAQUIDIANO PARA DIAGNÓSTICO E MONITORAMENTO DA NEUROSSÍFILIS: UM RELATO DE TRÊS CASOS.** IX Congresso de Infectiologia do Estado do RIO de Janeiro (Infecto RIO), Rio de Janeiro, Brazil (2024).
8. Cosgun Y et al. **Performance of new nucleoprotein-based ELISAs for serodiagnosis of acute Crimean-Congo hemorrhagic fever virus infections.** 4th NordTick Conference, Nyborg, Denmark (2024).
9. Deerberg A et al. **F-actin as a new marker antigen for autoimmune hepatitis on an established multiparametric immunoassay profile for liver diseases.** 37th Annual Meeting of the Association of Medical Laboratory Immunologists (AMLI), Nashville, USA (2024).
10. Elleuche S et al. **Evaluation of a new prototype ELISA for the detection of autoantibodies against IA2 in patients with type 1 diabetes mellitus.** 14th International Congress on Autoimmunity (ICA), Ljubljana, Slovenia (2024).
11. Elleuche S et al. **Evaluation of a new prototype ELISA for the detection of autoantibodies against IA2 in patients with type 1 diabetes mellitus.** 26th European Congress of Endocrinology (ECE), Stockholm, Sweden (2024).
12. Elleuche S et al. **Performance of a new prototype ELISA for the detection of autoantibodies against GAD65 in patients with Type 1 diabetes mellitus.** 14th International Congress on Autoimmunity (ICA), Ljubljana, Slovenia (2024).
13. Elleuche S et al. **Performance assessment of a newly developed chemiluminescence assay for anti-CCP determination.** 14th International Congress on Autoimmunity (ICA), Ljubljana, Slovenia (2024).
14. Elleuche S et al. **Serodiagnosis of rheumatoid arthritis using the new Accentis chemiluminescence immunoassay platform for anti-CCP antibody detection.** 37th Annual Meeting of the Association of Medical Laboratory Immunologists (AMLI), Nashville, USA (2024).
15. Elleuche S et al. **Serodiagnosis of rheumatoid arthritis using the new Accentis chemiluminescence immunoassay platform for anti-CCP antibody detection.** International Congress on Autoimmune Pre-Disease (ICAPD), Lübeck, Germany (2024).



16. Elleuche S et al. **Performance assessment of a newly developed chemiluminescence assay for anti-CCP determination.** 37th Annual Meeting of the Association of Medical Laboratory Immunologists (AMLI), Nashville, USA (2024).
17. Filippis C et al. **New real-time PCR assay for detection of *Candida auris* and echinocandin resistance-associated mutations.** Annual Conference of the Association of Public Health Laboratories (APHL), Milwaukee, USA (2024).
18. Hidalgo R et al. **Precisão interlaboratorial do Immunoblot para detecção de anticorpos IgG contra antígenos alimentares.** 56° Congresso Brasileiro de Patologia Clínica e Medicina Laboratorial (CBPCML), Salvador, Brazil (2024).
19. Hidalgo Dias R et al. **Educação Continuada Corporativa: reflexos na evolução da Medicina Diagnóstica laboratorial.** 56° Congresso Brasileiro de Patologia Clínica e Medicina Laboratorial (CBPCML), Salvador, Brazil (2024).
20. Hoffmann K et al. **Comparative evaluation of the diagnostic performance of two *Aspergillus* antigen ELISAs.** 12th Meeting of the Iranian Division of International Academy of Pathology, International Congress of Pathology and Laboratory Medicine (PLM), Tehran, Iran (2024).
21. Hohensee S et al. **Antibody detection in the context of vaccination against tick-borne encephalitis virus using a newly designed ELISA.** Clinical Virology Symposium (CVS) of the American Society for Microbiology (ASM), Long Beach, CA, USA (2024).
22. Hohensee S et al. **Antibody detection in the context of vaccination against tick-borne encephalitis virus using a newly designed ELISA.** 26th Annual Conference of the European Society for Clinical Virology (ESCV), Frankfurt, Germany (2024).
23. Ibrahimová M et al. **Evaluation of a new prototype interferon-gamma release assay for the determination of T-cell-mediated immunity in tuberculosis.** 7th Joint Microbiology & Infection Conference of the German Society for Hygiene and Microbiology (DGHM) and the Association of General and Applied Microbiology (VAAM), Würzburg, Germany (2024).
24. Ibrahimová M et al. **Evaluation of a new prototype interferon-gamma release assay for the determination of T-cell-mediated immunity in tuberculosis.** XLI. Congress of Czech and Slovak Allergists and Clinical Immunologists (CCSACI), Hradec Králové, Czech Republic (2024).
25. Klemens JM et al. **Mayaro virus and Chikungunya virus IgM and IgG testing in parallel improves diagnosis of acute Mayaro virus infections.** 34th European Congress of Clinical Microbiology & Infectious Diseases (ECCMID), Barcelona, Spain (2024).
26. Klemens JM et al. **Mayaro virus and Chikungunya virus IgM and IgG testing in parallel improves diagnosis of acute Mayaro virus infections.** Clinical Virology Symposium (CVS) of the American Society for Microbiology (ASM), Long Beach, CA, USA (2024).
27. Kohlie R et al. **Evaluation of the performance of the EUROIMMUN anti-GABA<sub>A</sub>R IFA in patients with suspected autoimmune anti-GABA<sub>A</sub>R encephalitis.** 14th International Congress on Autoimmunity (ICA), Ljubljana, Slovenia (2024).
28. Kruse T et al. **Comparison of prototype ELISAs for serodiagnosis of visceral leishmaniasis.** 34th European Congress of Clinical Microbiology & Infectious Diseases (ECCMID), Barcelona, Spain (2024).
29. Kühnl A et al. **Relevance of anti-PLA2R levels in therapy decision and prediction of therapy outcome using cyclophosphamide and steroids treatment in patients with membranous nephropathy.** 61st European Renal Association (ERA) Congress, Stockholm, Sweden (2024).
30. Latorre I et al. **Detection of T-cell responses in tuberculosis patients using a new prototype interferon-gamma release assay.** 34th European Congress of Clinical Microbiology & Infectious Diseases (ECCMID), Barcelona, Spain (2024).

31. Liaskos C et al. **F-actin in autoimmune liver diseases: a comprehensive evaluation of diagnostic potential using a newly-developed autoimmune liver line immunoassay.** Congress of the European Association of the Study of the Liver (EASL), Milan, Italy (2024).
32. Loritz M et al. **DAGLA als Zielstruktur einer immunvermittelten Cerebellitis.** 41. Arbeitstagung der Neurointensivmedizin (AMIM), Berlin, Germany (2024).
33. Meißner D et al. **New real-time PCR test for APOE genotyping in Alzheimer's patients before anti-amyloid therapy.** Alzheimer's Association International Conference (AAIC), Philadelphia, USA (2024).
34. Mindorf S et al. **Detection of KLHL11 autoantibodies using a new cell-based indirect immunofluorescence assay.** 14th International Congress on Autoimmunity (ICA), Ljubljana, Slovenia (2024).
35. Miske R et al. **Identification of DAGLA as an autoantibody target in cerebellar ataxia.** 14th International Congress on Autoimmunity (ICA), Ljubljana, Slovenia (2024).
36. Miske R et al. **Identifizierung von DAGLA Autoantikörpern bei akuter zerebellärer Ataxie.** 97. Kongress der Deutschen Gesellschaft für Neurologie (DGN), Berlin, Germany (2024).
37. Miske R et al. **Identification of DAGLA as an autoantibody target in cerebellar ataxia.** 37th Annual Meeting of the Association of Medical Laboratory Immunologists (AMLI), Nashville, USA (2024).
38. Montallier C et al. **Development and evaluation of i-Tracker Risankizumab and i-Tracker Anti-Risankizumab kits: fast and innovative chemiluminescent assays for the monitoring of patients treated with Risankizumab.** IBD Nordic Conference, Malmö, Sweden (2024).
39. Ott A et al. **Simultaneous detection of multiple Purkinje cell antigens using the EUROLINE Purkinje Cell Profile (IgG).** 14th International Congress on Autoimmunity (ICA), Ljubljana, Slovenia (2024).
40. Ott A et al. **Performance assessment of the new EUROLINE Neurologic Syndrome 15 Ag (IgG) for the detection of neurologic antibodies.** 14th International Congress on Autoimmunity (ICA), Ljubljana, Slovenia (2024).
41. Resende CF et al. **Frequência de anticorpos IgG contra antígenos alimentares em São Paulo (São Paulo, Brasil): leite e derivados podem ser vilões na SA?** 56° Congresso Brasileiro de Patologia Clínica e Medicina Laboratorial (CBPCML), Salvador, Brazil (2024).
42. Resende et al. **Avaliação do papel filtro (DBS) na detecção de anticorpos anti-Toxoplasma gondii (IgG).** 56° Congresso Brasileiro de Patologia Clínica e Medicina Laboratorial (CBPCML), Salvador, Brazil (2024).
43. Resende CF et al. **DESAFIOS E PERSPECTIVAS NA PREVENÇÃO DO SARAMPO NO BRASIL: UMA ANÁLISE DA COBERTURA VACINAL E PREVALÊNCIA DE ANTICORPOS EM SÃO CAETANO DO SUL, SÃO PAULO.** IX Congresso de Infectiologia do Estado do RIO de Janeiro (Infecto RIO), Rio de Janeiro, Brazil (2024).
44. Sabalza M et al. **Performance of new nucleoprotein-based ELISAs for serodiagnosis of acute Crimean-Congo hemorrhagic fever virus infections.** ASM Microbe, Atlanta, USA (2024).
45. Sabalza M et al. **Assessment of a new miniaturized line blot system for fully automated serodiagnosis of Borrelia infections.** ASM Microbe, Atlanta, USA (2024).
46. Sabalza M et al. **Assessment of a new miniaturized line blot system for fully automated serodiagnosis of Borrelia infections.** Meeting of the Association for Diagnostics & Laboratory Medicine (ADLM), Chicago, USA (2024).
47. Sabalza M et al. **Evaluation of the performance of the EUROIMMUN anti-GABA<sub>A</sub>R IFA in patients with suspected autoimmune anti-GABA<sub>A</sub>R encephalitis.** 14th Summer Conference "Autoimmune Neurology" of the American Academy of Neurology (AAN), Atlanta, USA (2024).



48. Sabalza M et al. **Mayaro virus and Chikungunya virus IgM and IgG testing in parallel improves diagnosis of acute Mayaro virus infections**. ASM Microbe, Atlanta, USA (2024).
49. Sabalza M et al. **New real-time PCR test for APOE genotyping in Alzheimer's patients before anti-amyloid therapy**. Meeting of the Association for Diagnostics & Laboratory Medicine (ADLM), Chicago, USA (2024).
50. Scharf M et al. **Septin-3 as a novel autoimmune target antigen in patients with paraneoplastic cerebellar ataxia**. 14th International Congress on Autoimmunity (ICA), Ljubljana, Slovenia (2024).
51. Venkataraman et al. **Performance assessment of the new EUROLINE Neurologic Syndrome 15 Ag (IgG) for the detection of neurologic antibodies**. Summer Conference "Autoimmune Neurology" of the American Academy of Neurology (AAN), Atlanta, USA (2024).
52. Weiss J et al. **F-actin as a new marker antigen for autoimmune hepatitis on an established multiparametric immunoassay profile for liver diseases**. Meeting of the Association for Diagnostics & Laboratory Medicine (ADLM), Chicago, USA (2024).
53. Weiss J et al. **Serodiagnosis of rheumatoid arthritis using the new Accentis chemiluminescence immunoassay platform for anti-CCP antibody detection**. Meeting of the Association for Diagnostics & Laboratory Medicine (ADLM), Chicago, USA (2024).
54. Weiss J et al. **Detection of KLHL11 autoantibodies using a new cell-based indirect immunofluorescence assay**. Meeting of the Association for Diagnostics & Laboratory Medicine (ADLM), Chicago, USA (2024).
55. Xie P et al. **An automated high-throughput extraction and real-time PCR solution for rapid *Candida auris* detection**. Annual Conference of the Association of Public Health Laboratories (APHL), Milwaukee, USA (2024).
56. Zeplin K et al. **Development of a prototype ChLIA and a research-use only ELISA for the detection of light chain neurofilament (NfL) in CSF**. Alzheimer's Association International Conference (AAIC), Philadelphia, USA (2024).
57. Zeng Z et al. **Identification of NVL as a novel ANA target in systemic sclerosis**. International Congress on Autoimmune Pre-Disease (IDAPD), Lübeck, Germany (2024).
58. Zonta M et al. **Prevalences of HPV and other sexually transmitted diseases among women living in remote areas along the Amazon rivers-Brazil**. International Multidisciplinary HPV Congress of the European Research Organisation on Genital Infection and Neoplasia (EUROGIN), Stockholm, Sweden (2024).

## Lectures

1. Confettura AD. **IIFT Cell-Based Assay – Applications in Autoimmune diseases diagnostics**. „The EUROIMMUN Effect“ – Workshop EUROIMMUN Italia, Padua, Italy (2024).
2. Scharf M. **Characterization of novel neuronal autoantigens**. BETPSY Scientific Day, Lyon, France (2024).

## Published Patent Applications

1. Hocke J et al. **Method and device for detecting at least one fluorescence pattern on an immunofluorescence image of a biological cell substrate**. European, Chinese and US patent application EP4345775 (filed 2022), CN117805383A (filed 2023) and US2024/0118209A1 (filed 2023).
2. Krauth J et al. **Method and device for detecting a presence of a fluorescence pattern on an immunofluorescence image of a biological cell substrate**. European, Chinese and US patent application EP4345658 (filed 2022), CN117808733A (filed 2023) and US2024/0119589A1 (filed 2023).

3. Scharf M et al. **Method and reagents for the detection of a mammalian antibody**. European and Chinese patent application EP4471426 (filed 2024) and CN119064588A (filed 2024).
4. Theuser M et al. **A method and reagents for enhancing the chemiluminescent signal**. German, Chinese, Japanese and US patent application DE112022003796T5 (filed 2022), CN117769588A (filed 2022), JP2024-527110A (filed 2022) and US2024/0353412 (filed 2022).

## 2023

### Publications

1. Aguilar E et al. **Detection of anti-AMPA receptor autoantibodies using a new substrate for recombinant cell-based testing**. In: Conrad K (Ed.). Achievements and Challenges in Research, Diagnostics and Therapy of Autoimmune Diseases. Pabst Science Publishers 240-241 (2023).
2. Aguilar E et al. **Evaluation of EUROIMMUN Anti-LGI1 cell-based assays: novel prototype versus commercial substrate**. In: Conrad K (Ed.). Achievements and Challenges in Research, Diagnostics and Therapy of Autoimmune Diseases. Pabst Science Publishers 242-243 (2023).
3. Arnold S et al. **Spectrum of ANCA-specificities in eosinophilic granulomatosis with polyangiitis – a retrospective multicenter study**. Clin Exp Rheumatol 41(4):936-942 (2023). DOI: 10.55563/clinexprheumatol/299yme.
4. Avižinienė A et al. **Characterization of a panel of cross-reactive hantavirus nucleocapsid protein-specific monoclonal antibodies**. Vaccines 15(2):532 (2023). DOI: 10.3390/v15020532.
5. Bertram CA et al. **Cytologic scoring of equine exercise-induced pulmonary hemorrhage: Performance of human experts and a deep learning-based algorithm**. Vet Pathol 60(1):75-85 (2023). DOI: 10.1177/03009858221137582.
6. Boch K et al. **Serum reactivity in dermatitis herpetiformis: an international multicenter study**. Clin Exp Dermatol 49(1):53-57 (2023). DOI: 10.1093/ced/llad319.
7. Borko TL et al. **SARS-CoV-2 mRNA vaccination induces an antigen-specific T cell response correlating with plasma interferon-gamma in B cell depleted patients**. J Neuroimmunol 383:578192 (2023). DOI: 10.1016/j.jneuroim.2023.578192.
8. Carvalho RS et al. **Use of cerebrospinal fluid CXCL13 concentration for diagnosis and monitoring of neurosyphilis: a three-case report**. DST – Brazilian Journal of Sexually Transmitted Diseases 35:e23351390 (2023). DOI: <https://doi.org/10.5327/DST-2177-8264-2023351390>.
9. Cosgun Y et al. **Evaluation of nucleoprotein-based enzyme-linked immunosorbent assay for serodiagnosis of acute Crimean-Congo hemorrhagic fever virus infections in a Turkish population**. Vector Borne Zoonotic Dis 23(1):44-53 (2023). DOI: 10.1089/vbz.2022.0026.
10. Cosgun Y et al. **Humoral immune response to CoronaVac in Turkish adults**. Vaccines 11(2):216 (2023). DOI: 10.3390/vaccines11020216.
11. Daguano Gastaldi V et al. **Factors predisposing to humoral autoimmunity against brain-antigens in health and disease: Analysis of 49 autoantibodies in over 7000 subjects**. Brain Behav Immun 108:135-147 (2023). DOI: 10.1016/j.bbi.2022.10.016.
12. Deerberg A et al. **F-actin as a new marker antigen for autoimmune hepatitis on an established multiparametric immunoassay profile for liver diseases**. In: Conrad K (Ed.).

13. De Gaspari P et al. **Humoral response to SARS-CoV-2: a perspective study in vaccinated subjects and COVID-19 patients.** In: Conrad K (Ed.). Achievements and Challenges in Research, Diagnostics and Therapy of Autoimmune Diseases. Pabst Science Publishers 325-326 (2023).
14. Gnirck AC et al. **Mucosal-associated invariant T cells contribute to suppression of inflammatory myeloid cells in immune-mediated kidney disease.** Nat Commun 14(1):7372 (2023). DOI: 10.1038/s41467-023-43269-0
15. Guttman S et al. **Dried blood spots eluates are suitable for testing of SARS-CoV-2 IgG antibodies targeting Spike protein 1 and Nucleocapsid protein.** Biochem Biophys Rep 34:101479 (2023). DOI: 10.1016/j.bbrep.2023.101479.
16. Heckler I et al. **The need for fast and accurate detection of dermatomycosis.** Med Mycol 61(5):myad037 (2023). DOI: 10.1093/mmy/myad037.
17. Hocke J et al. **Computer-aided classification of indirect immunofluorescence patterns on esophagus and split skin for the detection of autoimmune dermatoses.** Front Immunol 14:1111172 (2023). DOI: 10.3389/fimmu.2023.1111172.
18. Kawaguchi N et al. **Performance evaluation of the EUROIMMUN anti-acetylcholine receptor enzyme-linked immunoassay.** Clin Exp Neuroimmunol (2023). DOI: 10.1111/cen3.12774.
19. Kohlie R et al. **Evaluation of the performance of the EUROIMMUN anti-GABA<sub>A</sub>R IFA in patients with suspected autoimmune anti-GABA<sub>A</sub>R encephalitis.** In: Conrad K (Ed.). Achievements and Challenges in Research, Diagnostics and Therapy of Autoimmune Diseases. Pabst Science Publishers 246-247 (2023).
20. Kruzer K et al. **Clinical and autoantibody associations in antinuclear antibody-positive systemic sclerosis lacking prototypic autoantibodies.** J Clin Rheumatol 29(1):47-51 (2023). DOI: 10.1097/RHU.0000000000001881.
21. Li LY et al. **Brain blood vessel autoantibodies in patients with NMDA and GABAA receptor encephalitis: identification of unconventional Myosin-X as target antigen.** Front Cell Neurosci 17:1077204 (2023). DOI: 10.3389/fncel.2023.1077204.
22. Lochmanová A et al. **Comparison of two commercially available interferon-γ release assays for T-cell mediated immunity and evaluation of humoral immunity against SARS-CoV-2 in healthcare workers.** Diagnostics (Basel) 13(4):637 (2023). DOI: 10.3390/diagnostics13040637.
23. Mariotto S et al. **A novel cell-based immunofluorescence assay for the detection of autoantibodies to myelin-associated glycoprotein.** Front Neurol 14:1289810 (2023). DOI: 10.3389/fneur.2023.1289810.
24. McKeon A et al. **Utility of Protein Microarrays for Detection of Classified and Novel Antibodies in Autoimmune Neurologic Disease.** Neurol Neuroimmunol Neuroinflamm 10(5):e200145 (2023). DOI: 10.1212/NXI.000000000000200145.
25. Mindorf S et al. **Detection of KLHL11 autoantibodies using a new cell-based indirect immunofluorescence assay.** In: Conrad K (Ed.). Achievements and Challenges in Research, Diagnostics and Therapy of Autoimmune Diseases. Pabst Science Publishers 252-253 (2023).
26. Miske R et al. **Septin-3 autoimmunity in patients with paraneoplastic cerebellar ataxia.** J Neuroinflammation 20(1):88 (2023). DOI: 10.1186/s12974-023-02718-9.
27. Miske R et al. **Identification of DAGLA as an autoantibody target in cerebellar ataxia.** In: Conrad K (Ed.). Achievements and Challenges in Research, Diagnostics and Therapy of Autoimmune Diseases. Pabst Science Publishers 254-255 (2023).
28. Müller J et al. **Efficiency of CMV serodiagnosis during pregnancy in daily laboratory routine.** J Virol Methods 314:114685 (2023). DOI: 10.1016/j.jviromet.2023.114685.

29. Nizinski K et al. **The analysis of coexistence of celiac disease and vulvar lichen sclerosis in girls.** *Ginekol Pol* 93(10):793-798 (2023). DOI: 10.5603/GP.a2022.0102.
30. Ott A et al. **Simultaneous detection of multiple Purkinje cell antigens using the EUROLINE Purkinje Cell Profile (IgG).** In: Conrad K (Ed.). *Achievements and Challenges in Research, Diagnostics and Therapy of Autoimmune Diseases.* Pabst Science Publishers 248-249 (2023).
31. Ott A et al. **Performance assessment of the new EUROLINE Neurologic Syndrome 15 Ag (IgG) for the determination of autoantibodies associated with neurological disorders.** In: Conrad K (Ed.). *Achievements and Challenges in Research, Diagnostics and Therapy of Autoimmune Diseases.* Pabst Science Publishers 244-245 (2023).
32. Patrikiou E et al. **The presence of antibodies against DFS70 antigen are not correlated with antibodies against infectious antigens.** In: Conrad K (Ed.). *Achievements and Challenges in Research, Diagnostics and Therapy of Autoimmune Diseases.* Pabst Science Publishers 346-347 (2023).
33. Roeben B et al. **Seroprevalence of autoimmune antibodies in degenerative ataxias: a broad, disease-controlled screening in 456 subjects.** *J Neurol* 270(11):5649-5654 (2023). DOI: 10.1007/s00415-023-11900-1.
34. Sabalza M et al. **B-107 Serodiagnosis of Anti-glomerular Basement Membrane Disease Using a Newly Developed Chemiluminescence Immunoassay.** *Clin Chem* 69:Suppl\_1, hvad097.446 (2023). DOI: 10.1093/clinchem/hvad097.446.
35. Sabalza M et al. **B-108 T-cell-mediated immunity against SARS-CoV-2 in health care workers: Head-to-head comparison of two interferon-gamma release assays and associations between cellular and humoral immunity.** *Clin Chem* 69:Suppl\_1, hvad097.447 (2023). DOI: 10.1093/clinchem/hvad097.447.
36. Sacchi MC et al. **Evidence of the presence of antinuclear antibodies (ANA) in healthcare workers after mRNA based anti-SARS-CoV-2 vaccines: two years follow-up study.** Conrad K (Ed.). *Achievements and Challenges in Research, Diagnostics and Therapy of Autoimmune Diseases.* Pabst Science Publishers 323-324 (2023).
37. Sacchi MC et al. **The onset of de novo autoantibodies in healthcare workers after mRNA based anti-SARS-CoV-2 vaccines: a single centre prospective follow-up study.** *Autoimmunity* 56(1):2229072 (2023). DOI: 10.1080/08916934.2023.2229072.
38. Sara BV et al. **Improving in vitro detection of sensitization to lipid transfer proteins: A new molecular multiplex IgE assay.** *Mol Nutr Food Res*: e2200906 (2023). DOI: 10.1002/mnfr.202200906.
39. Scharf M. **Discovery of autoantibodies in autoimmune neurological syndromes.** In: Conrad K (Ed.). *Achievements and Challenges in Research, Diagnostics and Therapy of Autoimmune Diseases.* Pabst Science Publishers 215-216 (2023).
40. Scharf M et al. **Septin-3 as a novel autoimmune target antigen in patients with paraneoplastic cerebellar ataxia.** In: Conrad K (Ed.). *Achievements and Challenges in Research, Diagnostics and Therapy of Autoimmune Diseases.* Pabst Science Publishers 256-257 (2023).
41. Schöbel S et al. **Identification of neural autoantigens by combining indirect immunofluorescence of tissue sections and phage immunoprecipitation sequencing (PhIP-seq).** In: Conrad K (Ed.). *Achievements and Challenges in Research, Diagnostics and Therapy of Autoimmune Diseases.* Pabst Science Publishers 217-218 (2023).
42. Schiel R et al. **Serum uromodulin in children and adolescents with type 1 diabetes mellitus and controls: Its potential role in kidney health.** *Exp Clin Endocrinol Diabetes* 131(3):142-152 (2023). DOI: 10.1055/a-1944-2686.
43. Schulz P et al. **High frequency of cerebrospinal fluid autoantibodies in patients with seizures or epilepsies of unknown etiology.** *Front Neurol* 14:1211812 (2023). DOI: 10.3389/fneur.2023.1211812.

44. Sperber PS et al. **Depressive symptoms and anti-N-methyl-D-aspartate-receptor GluN1 antibody seropositivity in the PROSpective cohort with incident stroke.** Brain Behav Immun Health 34:100705 (2023). DOI: 10.1016/j.bbih.2023.100705.
45. Thakkar A et al. **Study of efficacy and longevity of immune response to 3rd and 4th doses of COVID-19 vaccines in patients with cancer: a single arm clinical trial.** eLife 12:e83694 (2023). DOI: 10.7554/eLife.83694.
46. Venkataraman I et al. **B-112 Routine application of PR3- and MPO-ANCA chemiluminescence immunoassays demonstrates enhanced detection rates.** Clin Chem 69:Suppl\_1, hvad097.451 (2023). DOI: 10.1093/clinchem/hvad097.451.
47. Venkataraman I et al. **B-113 Diagnostic value of autoantibodies against D-3-phosphoglycerate dehydrogenase (PGDH) among patients with liver diseases.** Clin Chem 69:Suppl\_1, hvad097.452 (2023). DOI: 10.1093/clinchem/hvad097.452.
48. Venkataraman I et al. **B-111 Parallel detection of antibodies against CDR2L and CDR2 increases the diagnostic specificity in serological diagnostics of paraneoplastic cerebellar degeneration.** Clin Chem 69:Suppl\_1, hvad097.450 (2023). DOI: 10.1093/clinchem/hvad097.450.
49. Vilaseca A et al. **The expanding spectrum of antibody-associated cerebellar ataxia: report of two new cases of anti-AP3B2 ataxia.** J Neurol 270(9):4533-4537 (2023). DOI: 10.1007/s00415-023-11732-z.
50. Vorasoot N et al. **CDR2 and CDR2L line blot performance in PCA-1/anti-Yo paraneoplastic autoimmunity.** Front Immunol 14:1265797 (2023). DOI: 10.3389/fimmu.2023.1265797.

## Abstracts & Posters

1. Aguilar E et al. **Detection of anti-AMPA receptor autoantibodies using a new substrate for recombinant cell-based testing.** 16th Dresden Symposium on Autoantibodies, Dresden, Germany (2023).
2. Aguilar E et al. **Evaluation of EUROIMMUN Anti-LGI1 cell-based assays: novel prototype versus commercial substrate.** 16th Dresden Symposium on Autoantibodies, Dresden, Germany (2023).
3. Alessio MG et al. **A new chemiluminescence immunoassay for the detection of faecal calprotectin.** 36th Annual Meeting of the Association of Medical Laboratory Immunologists (AMLI), Seattle, USA (2023).
4. Bacarov NB et al. **Vaccination anti-SARS-CoV-2 scheme effect on humoral responses on Brazilian cohort.** Annual Scientific Meeting & Clinical Lab Expo of the American Association for Clinical Chemistry (AACC), Anaheim, USA (2023).
5. Bacarov NB et al. **Infections associated with infertility and success of in vitro fertilization.** Annual Scientific Meeting & Clinical Lab Expo of the American Association for Clinical Chemistry (AACC), Anaheim, USA (2023).
6. Bestmann Y et al. **Serodiagnosis of anti-glomerular basement membrane disease using a newly developed chemiluminescence immunoassay.** 36th Annual Meeting of the Association of Medical Laboratory Immunologists (AMLI), Seattle, USA (2023).
7. Bestmann Y et al. **Serodiagnosis of anti-glomerular basement membrane disease using a newly developed chemiluminescence immunoassay.** Annual Scientific Meeting & Clinical Lab Expo of the American Association for Clinical Chemistry (AACC), Anaheim, USA (2023).
8. Borchardt-Lohölter V et al. **Serological diagnosis of Japanese encephalitis by detection of specific IgG and IgM antibodies in serum and CSF.** Medical Biodefense Conference (MBDC), Munich, Germany (2023).

9. Carvalho R et al. **Challenging diagnostic of neurosyphilis: use of CXCL13 concentration in cerebrospinal fluid**. Annual Scientific Meeting & Clinical Lab Expo of the American Association for Clinical Chemistry (AACC), Anaheim, USA (2023).
10. Cosgun Y et al. **Performance of new nucleoprotein-based ELISAs for serodiagnosis of acute Crimean-Congo hemorrhagic fever virus infections**. 16. Kongress für Infektionskrankheiten und Tropenmedizin (KIT), Leipzig, Germany (2023).
11. Cosgun Y et al. **Performance of new nucleoprotein-based ELISAs for serodiagnosis of acute Crimean-Congo hemorrhagic fever virus infections**. 8th European Congress of Virology (ECV), Gdansk, Poland (2023).
12. Cosgun Y et al. **Performance of new nucleoprotein-based ELISAs for serodiagnosis of acute Crimean-Congo hemorrhagic fever virus infections**. 25th Annual Conference of the European Society for Clinical Virology (ESCV), Milan, Italy (2023).
13. Cosgun Y et al. **Performance of new nucleoprotein-based ELISAs for serodiagnosis of acute Crimean-Congo hemorrhagic fever virus infections**. Medical Biodefense Conference (MBDC), Munich, Germany (2023).
14. Deerberg A et al. **F-actin as a new marker antigen for autoimmune hepatitis on an established multiparametric immunoassay profile for liver diseases**. 16th Dresden Symposium on Autoantibodies, Dresden, Germany (2023).
15. De Gaspari P et al. **Humoral response to SARS-CoV-2: a perspective study in vaccinated subjects and COVID-19 patients**. 16th Dresden Symposium on Autoantibodies, Dresden, Germany (2023).
16. Dibbern J et al. **Assessment of a new miniaturized line blot system for fully automated serodiagnosis of *Borrelia* infections**. Meeting of the Scandinavian Network for Tick and Tick-borne Pathogen Research (SNÄFF), Lund, Sweden (2023).
17. Dibbern J et al. **Assessment of a new miniaturized line blot system for fully automated serodiagnosis of *Borrelia* infections**. 33rd European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Copenhagen, Denmark (2023).
18. Dibbern J et al. **Assessment of a new miniaturized line blot system for fully automated serodiagnosis of *Borrelia* infections**. Clinical Virology Symposium (CVS) of the American Society for Microbiology (ASM), West Palm Beach, USA (2023).
19. Egger M et al. **Evaluation of a novel antigen ELISA for the diagnostics of invasive pulmonary aspergillosis**. 33rd European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Copenhagen, Denmark (2023).
20. Egger M et al. **Evaluation of a novel antigen ELISA for the diagnostics of invasive pulmonary aspergillosis**. ASM Microbe - Congress of the American Society for Microbiology, Houston, USA (2023).
21. Feng X et al. **Diagnostic value of autoantibodies against D-3-phosphoglycerate dehydrogenase (PGDH) among patients with liver diseases**. Annual Scientific Meeting & Clinical Lab Expo of the American Association for Clinical Chemistry (AACC), Anaheim, USA (2023).
22. Gebhardt AK et al. **Comparison of enzyme-linked immunosorbent assays for the diagnosis of dengue virus infections**. Conference of the Association of Public Health Laboratories (APHL): ID Lab Con, Atlanta USA (2023).
23. Grage-Griebenow E et al. **Analysis of cellular and humoral responses after SARS-CoV-2 infection and vaccination using a new interferon-gamma release assay**. 33rd European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Copenhagen, Denmark (2023).
24. Hoffmann K et al. **Comparative evaluation of the diagnostic performance of two *Aspergillus* antigen ELISAs**. 33rd European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Copenhagen, Denmark (2023).

25. Hoffmann K et al. **Comparative evaluation of the diagnostic performance of two *Aspergillus* antigen ELISAs**. 18th Scientific Meeting of the Nordic Society for Medical Mycology (NSMM), Copenhagen, Denmark (2023).
26. Hoffmann K et al. **Comparison of diagnostic performance of a novel *Aspergillus* antigen ELISA**. Conference of the Association of Public Health Laboratories (APHL): ID Lab Con, Atlanta, USA (2023).
27. Hoffmann K et al. **Comparative evaluation of the diagnostic performance of two *Aspergillus* antigen ELISAs**. ASM Microbe - Congress of the American Society for Microbiology, Houston, USA (2023).
28. Hohensee S et al. **Indirect immunofluorescence testing of IgM against sandfly fever virus in patients with evidence of acute neurological disease**. 25th Annual Conference of the European Society for Clinical Virology (ESCV), Milan, Italy (2023).
29. Hohensee S et al. **Indirect immunofluorescence testing of IgM against sandfly fever virus in patients with evidence of acute neurological disease**. Medical Biodefense Conference (MBDC), Munich, Germany (2023).
30. Kohlie R et al. **Evaluation of the performance of the EUROIMMUN anti-GABA<sub>A</sub>R IFA in patients with suspected autoimmune anti-GABA<sub>A</sub>R encephalitis**. 16th Dresden Symposium on Autoantibodies, Dresden, Germany (2023).
31. Martinek J et al. **Humoral and cellular immune response to COVID-19 vaccination in nursing home residents**. 16. Kongress für Infektionskrankheiten und Tropenmedizin (KIT), Leipzig, Germany (2023).
32. Martinek J et al. **T-cell-mediated immunity against SARS-CoV-2 in health care workers: Head-to-head comparison of two interferon-gamma release assays and associations between cellular and humoral immunity**. Annual Scientific Meeting & Clinical Lab Expo of the American Association for Clinical Chemistry (AACC), Anaheim, USA (2023).
33. Martinek J et al. **T-cell-mediated immunity against SARS-CoV-2 in health care workers: Head-to-head comparison of two interferon-gamma release assays and associations between cellular and humoral immunity**. Clinical Virology Symposium (CVS) of the American Society for Microbiology (ASM), West Palm Beach, USA (2023).
34. Martinek J et al. **Comparison of T-cell and humoral responses to SARS-CoV-2 infection and vaccination among healthcare workers in the Czech Republic**. 16. Kongress für Infektionskrankheiten und Tropenmedizin (KIT), Leipzig, Germany (2023).
35. Martinek J et al. **Comparison of T-cell and humoral responses to SARS-CoV-2 infection and vaccination among healthcare workers in the Czech Republic**. 33rd European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Copenhagen, Denmark (2023).
36. Menge B et al. **Sensitive detection of antibodies in patients with acute *Coxiella burnetii* infection**. Conference of the Association of Public Health Laboratories (APHL): ID Lab Con, Atlanta USA (2023).
37. Menge B et al. **Comparison of prototype ELISAs for serodiagnosis of visceral leishmaniasis**. 30th Annual Meeting of the German Society for Parasitology (DGP), Giessen, Germany (2023).
38. Menge B et al. **Comparison of prototype ELISAs for serodiagnosis of visceral leishmaniasis**. ASM Microbe - Congress of the American Society for Microbiology, Houston, USA (2023).
39. Mindorf S et al. **Detection of KLHL11 autoantibodies using a new cell-based indirect immunofluorescence assay**. 16th Dresden Symposium on Autoantibodies, Dresden, Germany (2023).
40. Miske R et al. **Identification of DAGLA as an autoantibody target in cerebellar ataxia**. 16th Dresden Symposium on Autoantibodies, Dresden, Germany (2023).



41. Moraes Soane M et al. **Antibodies anti-SARS-CoV-2 IgA and IgG detection in dried blood spots**. 34° Congresso Brasileiro de Virologia and 8° encontro Mercosul de Viroloia (2023).
42. Morillas Ramos G et al. **Humoral and cellular responses to SARS-CoV-2 Omicron infection in vaccinated and antigen-naïve individuals**. 8th European Congress of Virology (ECV), Gdansk, Poland (2023).
43. Morillas Ramos G et al. **Humoral and cellular responses to SARS-CoV-2 Omicron infection in vaccinated and antigen-naïve individuals**. 25th Annual Conference of the European Society for Clinical Virology (ESCV), Milan, Italy (2023).
44. Morillas Ramos G et al. **Humoral and cellular responses to SARS-CoV-2 Omicron infection in vaccinated and antigen-naïve individuals**. Clinical Virology Symposium (CVS) of the American Society for Microbiology (ASM), West Palm Beach, USA (2023).
45. Ott A et al. **Simultaneous detection of multiple Purkinje cell antigens using the EUROLINE Purkinje Cell Profile (IgG)**. 16th Dresden Symposium on Autoantibodies, Dresden, Germany (2023).
46. Ott A et al. **Performance assessment of the new EUROLINE Neurologic Syndrome 15 Ag (IgG) for the detection of neurologic antibodies**. 16th Dresden Symposium on Autoantibodies, Dresden, Germany (2023).
47. Ott A et al. **Parallel detection of antibodies against CDR2L and CDR2 increases the diagnostic specificity in serological diagnostics of paraneoplastic cerebellar degeneration**. Annual Scientific Meeting & Clinical Lab Expo of the American Association for Clinical Chemistry (AACC), Anaheim, USA (2023).
48. Patrikiou E et al. **The presence of antibodies against DFS70 antigen are not correlated with antibodies against infectious antigens**. 16th Dresden Symposium on Autoantibodies, Dresden, Germany (2023).
49. Patrikiou E et al. **Novel myositis-related autoantibodies in patients with idiopathic inflammatory myopathy: a single centre experience**. 7th International Congress on Controversies in Rheumatology and Autoimmunity (CORA), Turin, Italy (2023).
50. Rangel I et al. **Humoral responses following SARS-CoV-2 vaccination with homologous doses of CoronaVac, ChAdOx1 or BTN162B2 in people living with HIV**. 8th European Congress of Virology (ECV), Gdansk, Poland (2023).
51. Rangel I et al. **Humoral responses following SARS-CoV-2 vaccination with homologous doses of CoronaVac, ChAdOx1 or BTN162B2 in people living with HIV**. Clinical Virology Symposium (CVS) of the American Society for Microbiology (ASM), West Palm Beach, USA (2023).
52. Resende CF et al. **Serological detection of cytomegalovirus antibodies in dried blood spot**. 34° Congresso Brasileiro de Virologia and 8° encontro Mercosul de Viroloia (2023).
53. Resende CF et al. **Prevalence of IgG antibodies anti-Mumps at São Caetano do Sul City (São Paulo, Brazil)**. 34° Congresso Brasileiro de Virologia and 8° encontro Mercosul de Viroloia (2023).
54. Sabalza M et al. **Performance of new nucleoprotein-based ELISAs for serodiagnosis of acute Crimean-Congo hemorrhagic fever virus infections**. Annual Meeting of the American Society of Tropical Medicine & Hygiene (ASTMH), Chicago, USA (2023).
55. Sabalza M et al. **Mayaro virus and Chikungunya virus IgM and IgG testing in parallel improves diagnosis of acute Mayaro virus infections**. Meeting of the American Society of Tropical Medicine & Hygiene (ASTMH), Chicago, USA (2023).
56. Sabalza M et al. **Mayaro virus and Chikungunya virus IgM and IgG testing in parallel improves diagnosis of acute Mayaro virus infections**. 7th Pan-American Dengue Research Network (PADRN) Meeting, Lima, Peru (2023).



57. Sabalza M et al. **Comparison of prototype ELISAs for serodiagnosis of visceral leishmaniasis**. Annual Meeting of the American Society of Tropical Medicine & Hygiene (ASTMH), Chicago, USA (2023).
58. Sabalza M et al. **Development of a novel NS1-based ELISA for the detection of specific IgG antibodies against Japanese encephalitis virus**. Conference of the Association of Public Health Laboratories (APHL): ID Lab Con, Atlanta USA (2023).
59. Sacchi MC et al. **Evidence of the presence of antinuclear antibodies (ANA) in healthcare workers after mRNA based anti-SARS-CoV-2 vaccines: two years follow-up study**. 16th Dresden Symposium on Autoantibodies, Dresden, Germany (2023).
60. Schäfer J et al. **Novel ELISA based on purified and recombinant antigens from *Toxocara canis* exhibits a high diagnostic sensitivity**. Conference of the Association of Public Health Laboratories (APHL): ID Lab Con, Atlanta USA (2023).
61. Scharf M et al. **Septin-3 as a novel autoimmune target antigen in patients with paraneoplastic cerebellar ataxia**. 36th Annual Meeting of the Association of Medical Laboratory Immunologists (AMLI), Seattle, USA (2023).
62. Scharf M et al. **Septin-3 as a novel autoimmune target antigen in patients with paraneoplastic cerebellar ataxia**. 16th Dresden Symposium on Autoantibodies, Dresden, Germany (2023).
63. Traversa D et al. **Seroexposure to zoonotic *Anaplasma* and *Borrelia* in dogs and horses in contact with vulnerable people in Italy**. 15th International Symposium on Ticks and Tick-borne Diseases (ISTTBD), Weimar, Germany (2023).
64. Van Beers J et al. **Routine application of PR3- and MPO-ANCA chemiluminescence immunoassays demonstrates enhanced detection rates**. Annual Scientific Meeting & Clinical Lab Expo of the American Association for Clinical Chemistry (AACC), Anaheim, USA (2023).
65. Wu JL et al. **Clinical performance comparison of neurofascin-155 antibody testing methodologies**. 36th Annual Meeting of the Association of Medical Laboratory Immunologists (AMLI), Seattle, USA (2023).

## Lectures

1. Bestmann Y. **Serological diagnosis of membranous nephropathy**. Online Webinar CPC Diagnostics, virtual presentation (2023).
2. Brock J. **PLA<sub>2</sub>R cell-based assay**. Online Workshop: Autoimmune indirect immunofluorescence testing, Eindhoven, The Netherlands, virtual presentation (2023).
3. Dieckmann K. **Review of the current diagnostic guidelines detecting Lyme borreliosis and new diagnostic tools**. Sveriges Nätverk för Fästing Forskare (SNÄFF), Lund, Sweden (2023).
4. Pedaran M. **Aspergillus**. Internes Webinar EUROIMMUN, virtual presentation (2023).
5. Pedaran M. **Comparative evaluation of the diagnostic performance of two Aspergillus antigen ELISAs**. Nordic Society for Medical Mycology (NSMM), Maersk Tower University, Copenhagen, Denmark (2023).
6. Pollmann M. **Serologische Diagnostik der Lyme-Borreliose**. Vortrag für Mitarbeiter des Klinikums Hanau, virtual presentation (2023).
7. Scharf M. **Discovery of autoantibodies in autoimmune neurological syndromes**. 16<sup>th</sup> Dresden Symposium on Autoantibodies, Dresden, Germany (2023).
8. Schlumberger W. **Blutanalysen zum Nachweis von Nierenerkrankungen**. Weltnierentag, Greifswald, Germany (2023).

9. Warnecke JM. **Analysis of cellular and humoral responses after SARS-CoV-2 infection and vaccination using a new interferon-gamma release assay**. 33rd European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), ePoster flash session, Copenhagen, Denmark (2023).
10. Warnecke JM. **Indirect immunofluorescence testing of IgM against sandfly fever virus in patients with evidence of acute neurological disease**. Medical Biodefense Conference (MBDC), Munich, Germany (2023).

## Published Patent Applications

1. Ahlborg F et al. **Method for filtering a sensor signal and device for controlling an actuator by filtering a sensor signal**. European, Brazilian, Chinese and US patent application EP4202372 (filed 2021), BR102022025056-1 (filed 2022), CN116318135A (filed 2022) and US2023/0202052A1 (filed 2022).
2. Dibbern J et al. **Verfahren zum Herstellen einer Mikrotiterplatte mit Fängermolekülbeschichtungen und Mikrotiterplatte**. European patent application EP4239336 (filed 2022).
3. Farell D et al. **Verfahren zur Detektion eines Fehlerzustandes beim Aspirieren einer Flüssigkeit**. Brazilian patent application BR102022011223-1 (filed 2022).
4. Filippis C et al. **Method for the qualitative evaluation of real-time PCR data**. US patent application US2023/0022761 (filed 2020).
5. Gerlach S et al. **Verfahren und Vorrichtung zum Detektieren einer Präsenz eines Fluoreszenzmustertyps auf einem Organschnitt mittels Immunfluoreszenzmikroskopie**. Chinese and US patent application CN115775223A (filed 2022) and US2023/0071078A1 (2022).
6. Honorat JA et al. **Assessing and treating autoimmune ataxia**. US patent application US2023/0039907A1 (filed 2019).
7. Miske R et al. **Method and reagents for the detection of an autoantibody**. US patent application US2023/0053910A1 (filed 2022).
8. Pleibusch J et al. **Pumpenvorrichtung**. German patent application DE102022105995A1 (filed 2022).
9. Stahl RAK et al. **Novel biomarkers of membranous glomerulonephritis**. European, Chinese and US patent application EP4166946 (filed 2022), CN115980358A (filed 2022) and US2023/0133318-A1 (filed 2022).
10. Suer W et al. **Methods and reagents for detecting an antibody to a SES IPR-10 allergen**. European and Chinese patent application EP4134674 (filed 2022) and CN115925846A (filed 2022).
11. Theuser M et al. **A method and reagents for enhancing the chemiluminescent signal**. European and International patent application EP4146765 (filed 2022) and WO2023/006581 (filed 2022).
12. Zeng Z et al. **Method and means for detecting an autoantibody**. Taiwanese patent application TW202305362 (filed 2022).

2022

## Publications

1. Arnold S et al. **POS0829 Spectrum of ANCA-specificities in eosinophilic granulomatosis with polyangiitis in a retrospective multicenter study.** Ann Rheum Dis 81:705-706 (2022).
2. Bieber K et al. **DNA chip-based diagnosis of onychomycosis and tinea pedis.** J Dtsch Dermatol Ges 20(8):1112-1122 (2022). DOI: 10.1111/ddg.14819.
3. Bieber K et al. **DNA-chip-based molecular testing for the diagnosis of tinea.** Acta Derm Venereol 102 Suppl 222:19-20 (2022).
4. Calcoen B et al. **Real-world monitoring of BNT162b2 vaccine-induced SARS-CoV-2 B and T cell immunity in naive healthcare workers: a prospective single center study.** medRxiv DOI: 10.1101/2022.01.17.22269081 (2022).
5. Calcoen B et al. **High incidence of SARS-CoV-2 variant of concern breakthrough infections despite residual humoral and cellular immunity induced by BNT162b2 vaccination in healthcare workers: A long-term follow-up study in Belgium.** Viruses 14(6):1257 (2022). DOI: 10.3390/v14061257.
6. Dolscheid-Pommerich R et al. **Correlation between a quantitative anti-SARS-CoV-2 IgG ELISA and neutralization activity.** J Med Virol 94(1):388-392 (2022). DOI: 10.1002/jmv.27287.
7. Egger M et al. **Performance of the Euroimmun Aspergillus antigen ELISA for the diagnosis of invasive pulmonary aspergillosis in bronchoalveolar lavage fluid.** J Clin Microbiol 60(4):e0021522 (2022). DOI: 10.1128/jcm.00215-22.
8. Filippis C et al. **Novel PCR test to differentiate between infections with SARS-CoV-2, Influenza A and B.** Int J Infect Dis 116(Supplement):S43-S44 (2022). DOI: 10.1016/j.ijid.2021.12.104.
9. Gimsa U et al. **Early-life maternal deprivation affects the mother-offspring relationship in domestic pigs, as well as the neuroendocrine development and coping behavior of piglets.** Front Behav Neurosci 16:980350 (2022). DOI: 10.3389/fnbeh.2022.980350.
10. Hammers CM et al. **Evidence of direct binding of complement components to the immunodominant NC16A domain of collagen XVII.** Exp Dermatol 31(2):e58-e59 (2022). DOI: 10.1111/exd.14511.
11. Hayashi JY et al. **Humoral and cellular responses to vaccination with homologous CoronaVac or ChAdOx1 and heterologous third dose with BNT162b2.** J Infect 84(6):834-872 (2022). DOI: 10.1016/j.jinf.2022.02.026.
12. Heckler I et al. **Serological biomarkers and their detection in autoimmune bullous skin diseases.** Dermatol Pract Concept 12(2):e2022116 (2022). DOI: 10.5826/dpc.1202a116.
13. Heckler I et al. **Phosphorylated neurofilament heavy chain: a potential diagnostic biomarker in amyotrophic lateral sclerosis.** J Neurophysiol 127(3):737-745 (2022). DOI: 10.1152/jn.00398.2021.
14. Henry BM et al. **False-positive rates in pediatric SARS-CoV-2 serology testing.** Am J Clin Pathol 157(2):314-316 (2022). DOI: 10.1093/ajcp/aqab118.
15. Hinson SR et al. **Septin-5 and -7-IgGs: Neurologic, serologic, and pathophysiologic characteristics.** Ann Neurol 92(6):1090-1101 (2022). DOI: 10.1002/ana.26482.
16. Hüppe A et al. **Psychosoziales Problemfeld-Assessment bei chronisch entzündlichen Darmerkrankungen – wer nutzt die online-Version unter [www.CED-aktiv-werden.de](http://www.CED-aktiv-werden.de)? [Assessment of psychological problems in inflammatory bowel diseases – who uses the online version at [www.CED-aktiv-werden.de](http://www.CED-aktiv-werden.de)?].** Gesundheitswesen 84(5):466-473 (2022). DOI: 10.1055/a-1378-8859.
17. Janz J et al. **Multiparameter lineblot immunoassay for autoimmune inflammatory myopathies: Addition of cN-1A for the detection of autoantibodies associated with**

**Inclusion Body Myositis.** Ann Rheum Dis 81:1193 (2022). DOI: 10.1136/annrheumdis-2022-eular.494.

18. Jarius S et al. **Inositol 1,4,5-trisphosphate receptor type 1 autoantibody (ITPR1-IgG/anti-Sj)-associated autoimmune cerebellar ataxia, encephalitis and peripheral neuropathy: review of the literature.** J Neuroinflammation 19(1):196 (2022). DOI: 10.1186/s12974-022-02545-4.
19. Jarius S et al. **Rho GTPase-activating protein 10 (ARHGAP10/GRAF2) is a novel autoantibody target in patients with autoimmune encephalitis.** J Neurol 269(10):5420-5430 (2022). DOI: 10.1007/s00415-022-11178-9.
20. Klötzsch C et al. **Anti-Homer-3 antibodies in cerebrospinal fluid and serum samples from a 58-year-old woman with subacute cerebellar degeneration and diffuse breast adenocarcinoma.** Neurol Res Pract 4(1):29 (2022). DOI: 10.1186/s42466-022-00194-9.
21. Krzemień P et al. **Relationship Between Anti-DFS70 Autoantibodies and Oxidative Stress.** Biomark Insights 17:11772719211066791 (2022). DOI: 10.1177/11772719211066791.
22. Krzemień P et al. **Analysis of the impact of sex and age on the variation in the prevalence of antinuclear autoantibodies in Polish population: a nationwide observational, cross-sectional study.** Rheumatol Int 42(2):261-271 (2022). DOI: 10.1007/s00296-021-05033-9.
23. Kühnl A et al. **Serodiagnosis of anti-glomerular basement membrane disease using a newly developed chemiluminescence immunoassay.** Front Med (Lausanne) 9:915754 (2022). DOI: 10.3389/fmed.2022.915754.
24. Lanz TV et al. **Clonally expanded B cells in multiple sclerosis bind EBV EBNA1 and GlialCAM.** Nature 603(7900):321-327 (2022). DOI: 10.1038/s41586-022-04432-7.
25. Mangia A et al. **Cellular and humoral immune responses and breakthrough infections after two doses of BNT162b vaccine in healthcare workers (HW) 180 days after the second vaccine dose.** Front Public Health 10:847384 (2022). DOI: 10.3389/fpubh.2022.847384.
26. Markewitz R et al. **Kinetics of the antibody response to boosting with three differential vaccines against SARS-CoV-2.** Front Immunol 13:811020 (2022). DOI: 10.3389/fimmu.2022.811020.
27. Markewitz R et al. **Differences in immunogenicity of three different homo- and heterologous vaccination regimens against SARS-CoV-2.** Vaccines (Basel) 10(5):649 (2022). DOI: 10.3390/vaccines10050649.
28. Markewitz R et al. **B-cell responses to vaccination with BNT162b2 and mRNA-1273 6 months after second dose.** Clin Microbiol Infect 28(7):1024.e1-1024.e6 (2022). DOI: 10.1016/j.cmi.2022.02.028.
29. Markewitz R et al. **The temporal course of T- and B-cell-responses to vaccination with BNT162b2 and mRNA-1273.** Clin Microbiol Infect 28(5):701-709 (2022). DOI: 10.1016/j.cmi.2021.09.006.
30. Marzahl C et al. **Inter-species cell detection - datasets on pulmonary hemosiderophages in equine, human and feline specimens.** Sci Data 9(1):269 (2022). DOI: 10.1038/s41597-022-01389-0.
31. McKeon-Makki I et al. **Adenylate kinase 5 (AK5) autoimmune encephalitis: Clinical presentations and outcomes in three new patients.** J Neuroimmunol 367:577861 (2022). DOI: 10.1016/j.jneuroim.2022.577861.
32. Menge B et al. **Sensitive detection of antibodies in patients with acute Coxiella burnetii infection.** Int J Infect Dis 116(Supplement):S94 (2022). DOI: 10.1016/j.ijid.2021.12.222.
33. Miłosz M et al. **Validation of the test for detecting SARS-CoV-2 antigens in the Polish population in patients with suspected SARS-CoV-2 infection.** Cent Eur J Immunol 47(1):58-62 (2022). DOI: 10.5114/ceji.2022.113992.

34. Olbrich M et al. **Biodiversity of mycobial communities in health and onychomycosis**. Sci Rep 12(1):8872 (2022). DOI: 10.1038/s41598-022-13074-8.
35. Otto C et al. **Frequent intrathecal production of antibodies to the viral capsid antigen of Epstein-Barr virus in patients with central nervous system post-transplant lymphoproliferative disorder**. J Neuroimmunol 369:577902 (2022). DOI: 10.1016/j.jneuroim.2022.577902.
36. Pache F et al. **Multiple sclerosis: Analyses of intrathecally produced antimicrobial antibodies suggest unique role of Epstein-Barr virus**. Eur J Neurol 29 Suppl 1:795-796 (2022).
37. Pigors M et al. **Antibodies to the BP180 C-terminus cause subepithelial autoimmune blistering disease through activation of the C5a/C5aR1 axis**. Exp Dermatol 31(2):e61-e62 (2022). DOI: 10.1111/exd.14511.
38. Ramcke T et al. **Anti-BP230 only bullous pemphigoid constitutes a distinct disease subgroup with characteristic serological and clinical features**. J Invest Dermatol 142(11):3110-3113.e8 (2022). DOI: 10.1016/j.jid.2022.05.1084.
39. Sabalza M et al. **COVID-19: testing landscape post-infection, -vaccination, and future perspectives**. Viral Immunol 35(1):5-14 (2022). DOI: 10.1089/vim.2021.0121.
40. Saschenbrecker S et al. **Commentary: Comparison of different assays for the detection of anticyclic citrullinated peptide antibodies in patients with rheumatoid arthritis**. Front Immunol 13:1050197 (2022). DOI: 10.3389/fimmu.2022.1050197.
41. Schäfer et al. **Novel ELISA based on purified and recombinant antigens from Toxocara canis exhibits a high diagnostic sensitivity**. Int J Infect Dis 116(Supplement):S95 (2022). DOI: 10.1016/j.ijid.2021.12.223.
42. Sperber PS et al. **Serum anti-NMDA-receptor antibodies and cognitive function after ischemic stroke (PROSCIS-B)**. J Neurol 269(10):5521-5530 (2022). DOI: 10.1007/s00415-022-11203-x.
43. Steiner J et al. **Testing for thyroid peroxidase and antineuronal antibodies in depression and schizophrenia**. Methods Mol Biol 2343:203-213 (2022). DOI: 10.1007/978-1-0716-1558-4\_13.

## Abstracts & Posters

1. Alessio MG et al. **A new chemiluminescence immunoassay for the detection of faecal calprotectin**. 13th International Congress on Autoimmunity (ICA), Athens, Greece (2022).
2. Arit FA et al. **Anti-KCNA2 antibodies in neuropsychiatric diseases**. 13th International Congress on Autoimmunity (ICA), Athens, Greece (2022).
3. Bestmann Y et al. **Serodiagnosis of anti-glomerular basement membrane disease using a newly developed chemiluminescence immunoassay**. 14th Jahrestagung der Deutschen Gesellschaft für Nephrologie (DGfN), Berlin, Germany (2022).
4. Bestmann Y et al. **Relevance of anti-PLA2R levels in therapy decision and prediction of therapy outcome using cyclophosphamide and steroids treatment in patients with membranous nephropathy**. 14th Jahrestagung der Deutschen Gesellschaft für Nephrologie (DGfN), Berlin, Germany (2022).
5. Bieber K et al. **DNA-chip-based molecular testing for the diagnosis of tinea**. 35th Congress of Nordic Dermatology and Venereology, Copenhagen, Denmark (2022).
6. Cosgun Y et al. **Humoral immune response after immunization with inactivated whole-virion SARS-CoV-2 vaccine (CoronaVac) in Turkish adults**. 24th Annual Conference of the European Society for Clinical Virology (ESCV), Manchester, United Kingdom (2022).

7. Dieckmann K et al. **Novel interferon-gamma release assay for the quantitative determination of SARS-CoV-2-specific T-cell reactivity.** 32nd European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Lisbon, Portugal (2022).
8. Do LD et al. **Clinical, immune and histopathological characterisation of RGS8-related paraneoplastic cerebellar ataxis.** 13th International Congress on Autoimmunity (ICA), Athens, Greece (2022).
9. Filippis C et al. **Novel PCR test to differentiate between infections with SARS-CoV-2, Influenza A and B.** 24th Annual Conference of the European Society for Clinical Virology (ESCV), Manchester, United Kingdom (2022).
10. Frey C et al. **Alveolar echinococcosis in dogs: disease presentation, treatment options and serological diagnosis.** 15th International Congress of Parasitology (ICOPA), Copenhagen, Denmark (2022).
11. Gebhardt AK et al. **Comparison of enzyme-linked immunosorbent assays for the diagnosis of dengue virus infections.** Clinical Virology Symposium (CVS) of the American Society for Microbiology (ASM), West Palm Beach, USA (2022).
12. Grage-Griebenow E et al. **T-cell and antibody responses after SARS-CoV-2 infection and vaccination using a new interferon-gamma release assay.** 24th Annual Conference of the European Society for Clinical Virology (ESCV), Manchester, United Kingdom (2022).
13. Hammers CM et al. **Evidence of direct binding of complement components to the immunodominant NC16A domain of collagen XVII.** 48th Annual Meeting of the Arbeitsgemeinschaft Dermatologische Forschung (ADF), Innsbruck, Vienna (2022).
14. Heckler I et al. **Serological diagnosis of Japanese encephalitis by detection of specific IgG and IgM antibodies in serum and CSF.** Clinical Virology Symposium (CVS) of the American Society for Microbiology (ASM), West Palm Beach, USA (2022).
15. Heckler I et al. **Novel interferon-gamma release assay for the quantitative determination of SARS-CoV-2-specific T-cell reactivity.** Clinical Virology Symposium (CVS) of the American Society for Microbiology (ASM), West Palm Beach, USA (2022).
16. Heckler I et al. **Determination of vaccine-induced binding and neutralizing antibodies against SARS-CoV-2 using standardized assays.** Clinical Virology Symposium (CVS) of the American Society for Microbiology (ASM), West Palm Beach, USA (2022).
17. Hohensee S et al. **Determination of vaccine-induced binding and neutralizing antibodies against SARS-CoV-2 using standardized assays.** 32nd European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Lisbon, Portugal (2022).
18. Hohensee S et al. **Determination of vaccine-induced binding and neutralizing antibodies against SARS-CoV-2 using standardized assays.** 24th Annual Conference of the European Society for Clinical Virology (ESCV), Manchester, United Kingdom (2022).
19. Janz J et al. **Multiparameter lineblot immunoassay for autoimmune inflammatory myopathies: Addition of cN-1A for the detection of autoantibodies associated with Inclusion Body Myositis.** EULAR European Congress of Rheumatology, Copenhagen, Denmark (2022).
20. Janz J et al. **Multiparameter lineblot immunoassay for autoimmune inflammatory myopathies: Addition of cN-1A for the detection of autoantibodies associated with Inclusion Body Myositis.** 4th Global Conference on Myositis (GCOM), Prague, Czech Republic (2022).
21. Mariotto S et al. **Sensitivity and specificity of a novel cell-based indirect immunofluorescence assay for detecting anti-MAG IgM in patients with peripheral neuropathy.** AACC Annual Scientific Meeting and Clinical Lab Expo, Chicago, USA (2022).
22. Mariotto S et al. **Sensitivity and specificity of a novel cell-based indirect immunofluorescence assay for detecting anti-MAG IgM in patients with peripheral**



**neuropathy**. 35th Meeting of the Association of Medical Laboratory Immunologists (AMLI), Salt Lake City, USA (2022).

23. Mariotto S et al. **Sensitivity and specificity of a novel cell-based indirect immunofluorescence assay for detecting anti-MAG IgM in patients with peripheral neuropathy**. 13th International Congress on Autoimmunity (ICA), Athens, Greece (2022).
24. Markewitz R et al. **No evidence for short-term induction of antinuclear antibodies by vaccination with BNT162b2 and mRNA-1273**. 13th International Congress on Autoimmunity (ICA), Athens, Greece (2022).
25. Miske R et al. **Detection of anti-AK5 autoantibodies in patients with limbic encephalitis by indirect immunofluorescence assay and line blot**. AACC Annual Scientific Meeting and Clinical Lab Expo, Chicago, USA (2022).
26. Miske R et al. **Detection of anti-AK5 autoantibodies in patients with limbic encephalitis by indirect immunofluorescence assay and line blot**. 35th Meeting of the Association of Medical Laboratory Immunologists (AMLI), Salt Lake City, USA (2022).
27. Ott A et al. **Parallel detection of antibodies against CDR2L and CDR2 increases the diagnostic specificity in serological diagnostics of paraneoplastic cerebellar degeneration**. 13th International Congress on Autoimmunity (ICA), Athens, Greece (2022).
28. Pache F et al. **Multiple sclerosis: Analyses of intrathecally produced antimicrobial antibodies suggest unique role of Epstein-Barr virus**. 8th Congress of the European Academy of Neurology (EAN), Vienna, Austria (2022).
29. Pigors M et al. **Antibodies to the BP180 C-terminus cause subepithelial autoimmune blistering disease through activation of the C5a/C5aR1 axis**. 48th Annual Meeting of the Arbeitsgemeinschaft Dermatologische Forschung (ADF), Innsbruck, Vienna (2022). Exp Dermatol 31(2):e61-e62 (2022). DOI: 10.1111/exd.14511.
30. Ramcke T et al. **Identification of bullous pemphigoid (BP) patients with sole IgG-reactivity against BP230 strongly indicates that autoantibodies against intracellular BP230 contribute to skin damage in BP**. 48th Annual Meeting of the Arbeitsgemeinschaft Dermatologische Forschung (ADF), Innsbruck, Vienna (2022). Exp Dermatol 31(2):e62 (2022). DOI: 10.1111/exd.14511.
31. Rangel I et al. **Humoral immune response in persons living with HIV after SARS-CoV-2 vaccination with homologous doses of CoronaVac, ChAdOx1 or BNT162b2**. 24th Annual Conference of the European Society for Clinical Virology (ESCV), Manchester, United Kingdom (2022).
32. Richter M et al. **Detection of autoantibodies against cN-1A using a multiparameter line blot for autoimmune inflammatory myopathies**. 13th International Congress on Autoimmunity (ICA), Athens, Greece (2022).
33. Sabalza M et al. **Development of a novel NS1-based ELISA for the detection of specific IgG antibodies against Japanese encephalitis virus**. Clinical Virology Symposium (CVS) of the American Society for Microbiology (ASM), West Palm Beach, USA (2022).
34. Sabalza M et al. **Added value of testing for specific serum IgA additionally to IgM in acute secondary dengue virus infections**. Clinical Virology Symposium (CVS) of the American Society for Microbiology (ASM), West Palm Beach, USA (2022).
35. Scharf M et al. **Strategy for the detection of anti-septin antibodies by indirect immunofluorescence assay**. 13th International Congress on Autoimmunity (ICA), Athens, Greece (2022).
36. Scharf M et al. **Strategy for the detection of anti-septin antibodies by indirect immunofluorescence assay**. AACC Annual Scientific Meeting and Clinical Lab Expo, Chicago, USA (2022).

37. Van Beers J et al. **Routine application of PR3- and MPO-ANCA chemiluminescence immunoassays demonstrates enhanced detection rates**. 20th International Vasculitis and ANCA Workshop, Dublin, Ireland (2022).
38. Van Beers J et al. **Routine application of PR3- and MPO-ANCA chemiluminescence immunoassays demonstrates enhanced detection rates**. 13th International Congress on Autoimmunity (ICA), Athens, Greece (2022).
39. Villalta D et al. **Novel chemiluminescence immunoassays for serological diagnostics of coeliac disease**. 13th International Congress on Autoimmunity (ICA), Athens, Greece (2022).
40. Vink C et al. **Relevance of anti-PLA2R levels in therapy decision and prediction of therapy outcome using cyclophosphamide and steroids treatment in patients with membranous nephropathy**. 13th International Congress on Autoimmunity (ICA), Athens, Greece (2022).
41. Vink C et al. **Relevance of anti-PLA2R levels in therapy decision and prediction of therapy outcome using cyclophosphamide and steroids treatment in patients with membranous nephropathy**. AACC Annual Scientific Meeting and Clinical Lab Expo, Chicago, USA (2022).
42. Vink C et al. **Relevance of anti-PLA2R levels in therapy decision and prediction of therapy outcome using cyclophosphamide and steroids treatment in patients with membranous nephropathy**. 35th Meeting of the Association of Medical Laboratory Immunologists (AMLI), Salt Lake City, USA (2022).
43. Vink C et al. **Relevance of anti-PLA2R levels in therapy decision and prediction of therapy outcome using cyclophosphamide and steroids treatment in patients with membranous nephropathy**. American Society of Nephrology (ASN) Kidney Week, Orlando, USA (2022).
44. Wilhelm N et al. **New diagnostic markers for differentiation of acute and convalescent human cytomegalovirus infections**. Clinical Virology Symposium (CVS) of the American Society for Microbiology (ASM), West Palm Beach, USA (2022).
45. Zeng Z et al. **Identification of NVL as a novel ANA target in systemic sclerosis**. AACC Annual Scientific Meeting and Clinical Lab Expo, Chicago, USA (2022).
46. Zeng Z et al. **Identification of NVL as a novel ANA target in systemic sclerosis**. 35th Meeting of the Association of Medical Laboratory Immunologists (AMLI), Salt Lake City, USA (2022).
47. Zeng Z et al. **Identification of NVL as a novel ANA target in systemic sclerosis**. 13th International Congress on Autoimmunity (ICA), Athens, Greece (2022).

## Lectures

1. Bajorat S et al. **Einblick in den Lebenszyklus eines IVD: Stationen vor dem Inverkehrbringen eines In vitro-Diagnostikums**. Workshop at the 21st Jahrestagung der Arbeitsgemeinschaft Akkreditierter Laboratorien, Lübeck, Germany (2022).
2. Bestmann Y. **Relevance of anti-PLA2R levels in therapy decision and prediction of therapy outcome using cyclophosphamide and steroids treatment in patients with membranous nephropathy**. 14th Jahrestagung der Deutschen Gesellschaft für Nephrologie (DGfN), Berlin, Germany (2022).
3. Dieckmann K. **The development of innovative test systems at EUROIMMUN – from the idea to approval**. CORVOS Online Symposium on the Development and Application of Diagnostics and Antibiotics, virtual symposium (2022).
4. Dieckmann K. **T cells: Important pillar of immune protection against SARS-CoV-2**. INER Chemical Conferences in Mexico, Webinar (2022).



5. Komorowski L. **Fortschritte in der Diagnostik von Autoimmunerkrankungen durch Identifizierung neuer Autoantikörper und Entwicklung von zellbasierten Assays**. 9th Immunodiagnostic Meeting, Dresden, Germany (2022).
6. Lindae A. **Serologische Diagnostik autoimmuner Myositiden – viele Erscheinungsformen, eine Inkubation**. 9th Immunodiagnostic Meeting, Dresden, Germany (2022).
7. Miske R. **Anti-RGS8 Autoantikörper als diagnostische Marker für paraneoplastische Kleinhirnataxie**. 9th Immunodiagnostic Meeting, Dresden, Germany (2022).
8. Miske R. **Neuronal antigen identification and validation**. 3rd Scientific day of biomarkers in autoimmune encephalitis and paraneoplastic neurological syndromes (BETPSY), virtual meeting (2022).
9. Richter M. **Diagnostic tools in myositis**. Časomil Conference (Dynex), Modra, Slovakia (2022).
10. Rosenstock P. **Nahrungsmittelsensitivitäten einfach diagnostizieren mit myfoodprofile**. Sension Fortbildungsveranstaltung, Augsburg, Germany (2022).
11. Rosenstock P. **Nahrungsmittelsensitivitäten – Hintergründe, Möglichkeiten und Limitationen**. Fortbildungsveranstaltung des Biolabor Hemer, virtual meeting (2022).
12. Rothfuß S, Ade E. **Molekulare Infektionsdiagnostik bei der EUROIMMUN**. Open Campus Kiel, Kiel, Germany (2022).
13. Wetzel S. **Ganz schön ausgefuchst! – Zuverlässige Allergiediagnostik mit Multiparametertests von EUROIMMUN**. Qualitätszirkel der Dermatologen, Schwerin, Germany (2022).

## Published Patent Applications

1. Bernitt-Ringering E et al. **Apparatus and method for detecting coverslip regions of a slide**. Chinese and US patent application CN114930221A (filed 2020) and US 2022/0405940A1 (filed 2020).
2. Dähnich C et al. **An improved autoantibody detection assay**. European patent application EP4010704 (filed 2020).
3. Dettmann IM et al. **A method and reagents for diagnosing Membranous Nephropathy**. European, Chinese, Singaporean, Brazilian, Canadian and US patent application EP4012412 (filed 2021), CN114624445A (filed 2021), SG10202112532R (filed 2021), BR102021022687-0 (filed 2021), CA3141736 (filed 2021) and US2022/018732 (filed 2021).
4. Farell D et al. **Verfahren zur Detektion eines Fehlzustandes beim Aspirieren einer Flüssigkeit**. European and US patent application EP4104931 (filed 2021) and US2022/0404226A1 (filed 2022).
5. Filippis C et al. **Method for the qualitative evaluation of real-time PCR data**. Chinese patent application CN115176314A (filed 2020).
6. Gerlach S et al. **Verfahren und Vorrichtung zum Detektieren einer Präsenz eines Fluoreszenzmustertyps auf einem Organschnitt mittels Immunfluoreszenzmikroskopie**. European patent application EP4016082 (filed 2021).
7. Gerlach S et al. **Method for detecting a binding of antibodies from a patient sample to double-stranded DNA using Crithidia luciliae cells and fluorescence microscop**. European and Chinese patent application EP3971827 (filed 2020) and CN114283113A (filed 2021).
8. Harder M et al. **Assay for the diagnosis of dermatophytosis**. US patent application US2022/0205055A1 (filed 2022).
9. Huth B et al. **Vorrichtung zum Niederhalten von jeweiligen Membranelementen in jeweiligen Vertiefungen einer Multi-Well-Platte**. European and Brazilian patent application

EP4056272 (filed 2021) and BR102022002500-2 (filed 2020).

10. Krause C et al. **Verfahren zur Detektion von Präsenzen unterschiedlicher antinukleärer Antikörper-Fluoreszenzmustertypen ohne Gegenfärbung und Vorrichtung hierfür.** European and US patent application EP4030340 (filed 2021) and US20220228989 (filed 2022).
11. Krauth J et al. **Method and apparatus for detecting a presence of a fluorescence pattern type on an organ section by means of immunofluorescence microscopy.** European, Chinese and US patent application EP4016081 (filed 2020), CN114648761A (filed 2021) and US2022/0196553A1 (filed 2021).
12. Menge B et al. **A novel assay for the diagnosis of nematode infections.** Brazilian patent application BR102020012760-8 (filed 2020).
13. Miske R et al. **Method and reagents for the detection of an autoantibody.** European, Chinese and US patent application EP4080215 (filed 2022), CN115128266A (filed 2022) and US2022/0308053 (filed 2022).
14. Probst C et al. **Improved detection of NMDA receptor autoantibodies.** European and Chinese patent application EP4028769 (filed 2020) and CN114375396A (filed 2020).
15. Proost et al. **Set comprising a planar sample carrier having an absorbent membrane layer and having a box (Set mit einem flächigen Probenenträger und Schachtel).** European, Brazilian and US patent application EP3936233 (filed 2020), BR102021011057 (filed 2021) and US2022/0008912 (filed 2021).
16. Sethi S et al. **Methods and materials for identifying and treating membranous nephropathy.** US patent application US2022/0389108-A1 (filed 2020).
17. Stahl RAK et al. **A method and reagents for the diagnosis of MN.** European patent application EP4010703 (filed 2020).
18. Steinhagen K et al. **Methods and reagents for diagnosis of SARS-CoV-2 infection.** European, Korean and Russian patent application EP3978927 (filed 2021), 10-2021-7042841 (filed 2021) and 2021134819 (filed 2021).
19. Steller U et al. **Cross-contamination control.** European, Chinese and US patent application EP4095260 (filed 2022), CN115404157A (filed 2022) and US2022/0380836 (filed 2022).
20. Weimann Y et al. **Methods and reagents for detecting an antibody to a sesame nsLTP.** European, Chinese and Singaporean patent application EP4057009 (filed 2022), CN115043916A (filed 2022) and SG10202202323Y (filed 2022).
21. Zeng Z et al. **Method and means for detecting an autoantibody.** European, Chinese and US patent application EP4063864 (filed 2022), CN115128275A (filed 2022) and US2022/0317121-A1 (filed 2022).

## 2021

### Publications

1. Álvarez I et al. **Added value of cerebrospinal fluid multimarker analysis in diagnosis and progression of dementia.** Eur J Neurol 28(4):1142-1152 (2021). DOI: 10.1111/ene.14658.
2. Bogdanos DP et al. **Anti-Ro52 antibody is highly prevalent and a marker of better prognosis in patients with ovarian cancer.** Clin Chim Acta 521:199-205 (2021). DOI: 10.1016/j.cca.2021.07.006.
3. Bonetti TCS et al. **Antibody indexes in COVID-19 convalescent plasma donors: Unanswered questions.** Clinics (Sao Paulo) 76:e2818 (2021). DOI: 10.6061/clinics/2021/e2818.

4. Brändle SM et al. **Cross-reactivity of a pathogenic autoantibody to a tumor antigen in GABA<sub>A</sub> receptor encephalitis.** Proc Natl Acad Sci USA 118(9):e1916337118 (2021). DOI: 10.1073/pnas.1916337118.
5. Brasch J et al. **Arthroderma crocatum auf menschlicher Haut.** Hautarzt 72(3):267-270 (2021). DOI: 10.1007/s00105-020-04752-7.
6. Budhram A et al. **Neural antibody testing for autoimmune encephalitis: a Canadian single-centre experience.** Can J Neurol Sci 48(6):859-863 (2021). DOI: 10.1017/cjn.2021.23.
7. Cirkel A et al. **Paraneoplastic encephalomyeloradiculitis with multiple autoantibodies against ITPR-1, GFAP and MOG: case report and literature review.** Neurol Res Pract 3(1):48 (2021). DOI: 10.1186/s42466-021-00145-w.
8. Diekämper E et al. **Neurofilament levels are reflecting the loss of presynaptic dopamine receptors in movement disorders.** Front Neurosci 15:690013 (2021). DOI: 10.3389/fnins.2021.690013.
9. Dziadkowiak E et al. **Occult autoimmune background for epilepsy – the preliminary study on antibodies against neuronal surface antigens.** Front Neurol 12:660126 (2021). DOI: 10.3389/fneur.2021.660126.
10. Emmerich P et al. **Comparison of diagnostic performances of ten different immunoassays detecting anti-CCHFV IgM and IgG antibodies from acute to subsided phases of Crimean-Congo hemorrhagic fever.** PloS Negl Trop Dis 15(3):e0009280 (2021). DOI: 10.1371/journal.pntd.0009280.
11. Emmerich P et al. **Longitudinal detection of SARS-CoV-2-specific antibody responses with different serological methods.** J Med Virol 93(10):5816-5824 (2021). DOI: 10.1002/jmv.27113.
12. Emtenani S et al. **Pathogenic activation and therapeutic blockage of Fc alpha receptor-expressing polymorphonuclear leukocytes in IgA pemphigus.** J Invest Dermatol 141(12):2820-2828 (2021). DOI: 10.1016/j.jid.2021.06.007.
13. Ewers N et al. **Presence of anti-SARS-CoV-2 antibodies of class IgA but not IgG in a COVID-19 patient.** Research Infotext, COVID-19 Pandemic: Case Studies, Commentaries, and Opinions 2(5):339-345 (2021).
14. Hansson O et al. **The Alzheimer's Association international guidelines for handling of cerebrospinal fluid for routine clinical measurements of amyloid  $\beta$  and tau.** Alzheimers Dement 17(9):1575-1582 (2021). DOI: 10.1002/alz.12316.
15. Haubold B et al. **Fur: find unique genomic regions for diagnostic PCR.** Bioinformatics 37(15):2081-2087 (2021). DOI: 10.1093/bioinformatics/btab059.
16. Hoxha E et al. **A new chemiluminescence immunoassay for phospholipase A2 receptor 1 autoantibodies allows early identification of autoantibody recurrence in patients with membranous nephropathy.** Kidney Int Rep 6(4):928-935 (2021). DOI: 10.1016/j.ekir.2020.12.034.
17. Jarius S et al. **Parvovirus B19 and mumps virus antibodies are major constituents of the intrathecal immune response in European patients with MS and increase the diagnostic sensitivity and discriminatory power of the MRZ reaction.** J Neurol 268(10):3758-3765 (2021). DOI: 10.1007/s00415-021-10471-3.
18. Knight V et al. **Highlights of the 33rd annual scientific meeting of the Association of Medical Laboratory Immunologists (AMLI).** J Immunol Methods 492:112994 (2021). DOI: 10.1016/j.jim.2021.112994.
19. Marzahl C et al. **EXACT: a collaboration toolset for algorithm-aided annotation of images with annotation version control.** Sci Rep 11(1):4343 (2021). DOI: 10.1038/s41598-021-83827-4.
20. Miske R. **What do we know about autoantibodies against the novel Purkinje cell antigen DAGLA?** AACCC Academy Scientific Shorts. May 18, 2021.

21. Miske R et al. **Autoantibodies against the Purkinje cell protein RGS8 in paraneoplastic cerebellar syndrome.** Neurol Neuroimmunol Neuroinflamm 8(3):e987 (2021). DOI: 10.1212/NXI.0000000000000987.
22. Naides SJ. **Dr. Naides reply.** J Rheumatol 48(7):1190 (2021). DOI: 10.3899/jrheum.210093.
23. Niederhauser C et al. **Comparison of a new IgG-EIA for the detection of anti-Plasmodium antibodies with two currently used assays.** Transfus Med Hemother 48(5):265-271 (2021). DOI: 10.1159/000515842.
24. Raulf M et al. **A new ELISA and western blot technique based on recombinant TES antigen and/or larval antigen for the detection of toxocariasis in humans.** Parasitology 148(3):333-340 (2021). DOI: 10.1017/S0031182020002085.
25. Reinhard L et al. **Characterization of THSD7A-antibodies not binding to glomerular THSD7A in a patient with diabetes mellitus but no membranous nephropathy.** Sci Rep 11(1):16188 (2021). DOI: 10.1038/s41598-021-94921-y.
26. Rietveld A et al. **Anti-cytosolic 5'-nucleotidase 1A autoantibodies are absent in juvenile dermatomyositis.** Arthritis Rheumatol 73(7):1329-1333 (2021). DOI: 10.1002/art.41660.
27. Schanda K et al. **Differential binding of autoantibodies to MOG isoforms in inflammatory demyelinating diseases.** Neurol Neuroimmunol Neuroinflamm 8(5):e1027 (2021). DOI: 10.1212/NXI.0000000000001027.
28. Schiffner J et al. **Long-term course of humoral and cellular immune responses in outpatients after SARS-CoV-2 infection.** Front Public Health 9:732787 (2021). DOI: 10.3389/fpubh.2021.732787.
29. Steinhagen K et al. **Serological detection of specific IgA antibodies against Zika virus nonstructural protein 1 contributes to diagnosis of acute Zika virus infections.** In: Martin CR et al. (Hrsg.): Zika virus impact, diagnosis, control, and models. The Neuroscience of Zika virus. Elsevier Academic Press, Volume 2:293-302 (2021). DOI.org/10.1016/B978-0-12-820267-8.00028-5
30. Van Anh Pham C et al. **Expression of epidermal antimicrobial peptides is increased in tinea pedis.** Mycoses 64(7):763-770 (2021). DOI: 10.1111/myc.13279.
31. Weber MN et al. **Serologic evidence of West Nile virus and Saint Louis encephalitis virus in horses from Southern Brazil.** Braz J Microbiol 52(2):1021-1027 (2021). DOI: 10.1007/s42770-021-00474-7.
32. Weisser H et al. **Evaluation of dried blood spots as alternative sampling material for serological detection of anti-SARS-CoV-2 antibodies using established ELISAs.** Clin Chem Lab Med 59(5):979-985 (2021). DOI: 10.1515/cclm-2020-1436.
33. Wilke JBH et al. **Autoantibodies against NMDA receptor 1 modify rather than cause encephalitis.** Mol Psychiatry 26(12):7746-7759 (2021). DOI: 10.1038/s41380-021-01238-3.

## Abstracts & Posters

1. Alessio MG et al. **A new chemiluminescence immunoassay for the detection of faecal calprotectin.** 15th Dresden Symposium on Autoantibodies, Dresden, Germany (2021).
2. Braasch J et al. **New approach for the detection of *Trichinella spiralis* in slaughtered pigs.** 29th Annual Meeting of the German Society for Parasitology, virtual congress (2021).
3. Dieckmann K et al. **Added value of testing for specific serum IgA additionally to IgM in acute secondary dengue virus infections.** 31st European Congress of Clinical Microbiology & Infectious Diseases (ECCMID), virtual congress (2021).
4. Dilberger B et al. **Increased sensitivity for detection of IgA autoantibodies against tissue transglutaminase using a new chemiluminescence immunoassay.** 34th Meeting of Medical Laboratory Immunologists (AMLI), Austin, USA (2021).

5. Dilberger B et al. **Increased sensitivity for detection of IgA autoantibodies against tissue transglutaminase using a new chemiluminescence immunoassay**. AACC Annual Scientific Meeting & Clinical Lab Expo, Atlanta, USA (2021).
6. Dilberger B et al. **Increased sensitivity for detection of IgA autoantibodies against tissue transglutaminase using a new chemiluminescence immunoassay**. 12th International Congress on Autoimmunity (ICA), virtual congress (2021).
7. Feng X et al. **Diagnostic value of autoantibodies against D-3-phosphoglycerate dehydrogenase (PGDH) among patients with liver diseases**. 12th International Congress on Autoimmunity (ICA), virtual congress (2021).
8. Filippis C et al. **Novel PCR test to differentiate between infections with SARS-CoV-2, Influenza A and B**. 31st European Congress of Clinical Microbiology & Infectious Diseases (ECCMID), virtual congress (2021).
9. Filippis C et al. **Novel PCR test to differentiate between infections with SARS-CoV-2, Influenza A and B**. 8th International Meeting on Emerging Diseases and Surveillance (IMED), virtual congress (2021).
10. Goletz S et al. **Cell-based immunofluorescence test applying recombinant laminin 332 for the serological diagnosis of pemphigoid**. 12th International Congress on Autoimmunity (ICA), virtual congress (2021).
11. Goletz S et al. **Cell-based immunofluorescence test applying recombinant laminin 332 for the serological diagnostics of pemphigoid**. 15th Dresden Symposium on Autoantibodies, Dresden, Germany (2021).
12. Goletz S et al. **Cell-based immunofluorescence test applying recombinant laminin 332 for the serological diagnosis of pemphigoid**. 34th Meeting of Medical Laboratory Immunologists (AMLI), Austin, USA (2021).
13. Goletz S et al. **Cell-based immunofluorescence test applying recombinant laminin 332 for the serological diagnosis of pemphigoid**. AACC Annual Scientific Meeting & Clinical Lab Expo, Atlanta, USA (2021).
14. Hoffmann K et al. **Novel antigen assay for acute diagnostics of COVID-19 in the laboratory**. 31st European Congress of Clinical Microbiology & Infectious Diseases (ECCMID), virtual congress (2021).
15. Hoffmann K et al. **Novel antigen assay for acute diagnostics of COVID-19 in the laboratory**. AACC Annual Scientific Meeting & Clinical Lab Expo, Atlanta, USA (2021).
16. Honorat JA et al. **Autoimmune gait disturbance accompanying adaptor protein 3B2-IgG**. 12th International Congress on Autoimmunity (ICA), virtual congress (2021).
17. Honorat JA et al. **Autoimmune gait disturbance accompanying adaptor protein 3B2-IgG**. 34th Meeting of Medical Laboratory Immunologists (AMLI), Austin, USA (2021).
18. Honorat JA et al. **Autoimmune gait disturbance accompanying adaptor protein 3B2-IgG**. AACC Annual Scientific Meeting & Clinical Lab Expo, Atlanta, USA (2021).
19. Hoxha E et al. **Increased sensitivity for PR3-ANCA using a novel chemiluminescence immunoassay**. AACC Annual Scientific Meeting & Clinical Lab Expo, Atlanta, USA (2021).
20. Hoxha E et al. **Increased sensitivity for PR3-ANCA using a novel chemiluminescence immunoassay**. 12th International Congress on Autoimmunity (ICA), virtual congress (2021).
21. Hoxha E et al. **A new chemiluminescence immunoassay for phospholipase A2 receptor 1 autoantibodies allows earlier identification of relapses in patients with membranous nephropathy**. 12th International Congress on Autoimmunity (ICA), virtual congress (2021).
22. Hoxha E et al. **A new chemiluminescence immunoassay for phospholipase A2 receptor 1 autoantibodies allows earlier identification of relapses in patients with membranous nephropathy**. 13. Jahrestagung der Deutschen Gesellschaft für Nephrologie (DGfN),

Rostock, Germany (2021).

23. Hoxha E et al. **A new chemiluminescence immunoassay for phospholipase A2 receptor 1 autoantibodies allows earlier identification of relapses in patients with membranous nephropathy.** 34th Meeting of Medical Laboratory Immunologists (AMLI), Austin, USA (2021).
24. Janz J et al. **Multiparameter assay for the detection of IgA antibodies in autoimmune gastrointestinal disease.** 12th International Congress on Autoimmunity (ICA), virtual congress (2021).
25. Janz J et al. **Multiparameter assay for the detection of IgG antibodies in autoimmune gastrointestinal disease.** 12th International Congress on Autoimmunity (ICA), virtual congress (2021).
26. Janz J et al. **Addition of cN-1A as a target for detection of autoantibodies associated with Inclusion Body Myositis to a multiparameter lineblot immunoassay for autoimmune inflammatory myopathies.** 12th International Congress on Autoimmunity (ICA), virtual congress (2021).
27. Janz J et al. **Addition of cN-1A as a target for detection of autoantibodies associated with Inclusion Body Myositis to a multiparameter lineblot immunoassay for autoimmune inflammatory myopathies.** AACC Annual Scientific Meeting & Clinical Lab Expo, Atlanta, USA (2021).
28. Kühnl A et al. **Novel Anti-ATP4B ELISA to aid the diagnosis of autoimmune gastritis.** 34th Meeting of Medical Laboratory Immunologists (AMLI), Austin, USA (2021).
29. Kühnl A et al. **Novel Anti-ATP4B ELISA to aid the diagnosis of autoimmune gastritis.** AACC Annual Scientific Meeting & Clinical Lab Expo, Atlanta, USA (2021).
30. Kühnl A et al. **Novel Anti-ATP4B ELISA to aid the diagnosis of autoimmune gastritis.** 12th International Congress on Autoimmunity (ICA), virtual congress (2021).
31. Langer N et al. **Correlation between quantitative anti-SARS-CoV-2 IgG ELISA and neutralization tests.** 31st European Congress of Clinical Microbiology & Infectious Diseases (ECCMID), virtual congress (2021).
32. Markewitz R et al. **No evidence for short-term induction of antinuclear antibodies by vaccination with BNT162b2 and mRNA-1273.** 15th Dresden Symposium on Autoantibodies, Dresden, Germany (2021).
33. Menge B et al. **Sensitive detection of antibodies in patients with acute Coxiella burnetii infection.** World Microbe Forum, Congress of the American Society for Microbiology (ASM) and the Federation of European Microbiological Societies (FEMS), virtual congress (2021).
34. Menge B et al. **Sensitive detection of antibodies in patients with acute Coxiella burnetii infection.** 8th International Meeting on Emerging Diseases and Surveillance (IMED), virtual congress (2021).
35. Miske R et al. **Detection of anti-AK5 autoantibodies in patients with limbic encephalitis by indirect immunofluorescence assay and line blot.** 15th Dresden Symposium on Autoantibodies, Dresden, Germany (2021).
36. Miske R et al. **Identification of DAGLA as an autoantibody target in cerebellar or hippocampal degeneration.** 12th International Congress on Autoimmunity (ICA), virtual congress (2021).
37. Miske R et al. **Identification of DAGLA as an autoantibody target in cerebellar or hippocampal degeneration.** 34th Meeting of Medical Laboratory Immunologists (AMLI), Austin, USA (2021).
38. Miske R et al. **Identification of DAGLA as an autoantibody target in cerebellar or hippocampal degeneration.** AACC Annual Scientific Meeting & Clinical Lab Expo, Atlanta, USA (2021).

39. Ott A et al. **Parallel detection of antibodies against CDR2L and CDR2 increases the diagnostic specificity in serological diagnostics of paraneoplastic cerebellar degeneration.** 15th Dresden Symposium on Autoantibodies, Dresden, Germany (2021).
40. Pollmann M et al. **Development of a novel NS1-based ELISA for the detection of specific IgG antibodies against Japanese encephalitis virus.** 23rd Annual Meeting of the European Society for Clinical Virology (ESCV), virtual congress (2021).
41. Pollmann M et al. **Novel line blot differentiates between IgG antibodies against three SARS-CoV-2 antigens and against further seasonal coronaviruses.** 23rd Annual Meeting of the European Society for Clinical Virology (ESCV), virtual congress (2021).
42. Saraiva N et al. **Queda na Razão Média de Anticorpos IgA e IgG anti-SARS-CoV-2 após esquema vacinal com CoronaVac.** 2º Congresso Virtual SBPC/ML – Sociedade Brasileira de Patologia Clínica (2021).
43. Saraiva N et al. **Quantificação de Anticorpos IgG anti-SARS-CoV-2 nos equipamentos SPRINTER XL e EUROLABWorkstation.** 2º Congresso Virtual SBPC/ML – Sociedade Brasileira de Patologia Clínica (2021).
44. Schäfer J et al. **Novel ELISA based on purified and recombinant antigens from Toxocara canis exhibits a high diagnostic sensitivity.** 29th Annual Meeting of the German Society for Parasitology, virtual congress (2021).
45. Schäfer J et al. **Novel ELISA based on purified and recombinant antigens from Toxocara canis exhibits a high diagnostic sensitivity.** 8th International Meeting on Emerging Diseases and Surveillance (IMED), virtual congress (2021).
46. Scharf M et al. **Strategy for the detection of anti-septin antibodies by indirect immunofluorescence assay.** 15th Dresden Symposium on Autoantibodies, Dresden, Germany (2021).
47. Stiba K et al. **Added value of testing for specific serum IgA additionally to IgM in acute secondary dengue virus infections.** 23rd Annual Meeting of the European Society for Clinical Virology (ESCV), virtual congress (2021).
48. Stiba K et al. **Development of a novel NS1-based ELISA for the detection of specific IgG antibodies against Japanese encephalitis virus.** 31st European Congress of Clinical Microbiology & Infectious Diseases (ECCMID), virtual congress (2021).
49. Van Beers J et al. **Routine application of PR3- and MPO-ANCA chemiluminescence immunoassays demonstrates enhanced detection rates.** 15th Dresden Symposium on Autoantibodies, Dresden, Germany (2021).
50. Venkataraman I et al. **Novel line blot differentiates between IgG antibodies against three SARS-CoV-2 antigens and against further seasonal coronaviruses.** AACC Annual Scientific Meeting & Clinical Lab Expo, Atlanta, USA (2021).
51. Villalta D et al. **Novel chemiluminescence immunoassays for serological diagnostics of coeliac disease.** 15th Dresden Symposium on Autoantibodies, Dresden, Germany (2021).
52. Vink C et al. **Relevance of anti-PLA2R levels in therapy decision and prediction of therapy outcome using cyclophosphamide and steroids treatment in patients with membranous nephropathy.** 15th Dresden Symposium on Autoantibodies, Dresden, Germany (2021).
53. Weisser H et al. **Dried blood spots: a robust sample material for detection of anti-SARS-CoV-2 antibodies. Valuable tool in the context for seroprevalence and vaccination studies.** 31st European Congress of Clinical Microbiology & Infectious Diseases (ECCMID), virtual congress (2021).
54. Weisser H et al. **Dried blood spots are an alternative sampling material for detection of anti-SARS-CoV-2 antibodies.** 30th Annual Meeting of the Society for Virology (GfV), virtual congress (2021).



55. Wolf J et al. **Correlation between binding and neutralising antibodies against SARS-CoV-2 with respect to the severity and phase of COVID-19**. 23rd Annual Meeting of the European Society for Clinical Virology (ESCV), virtual congress (2021).
56. Zeng Z et al. **Identification of NVL as a novel ANA target in systemic sclerosis**. 15th Dresden Symposium on Autoantibodies, Dresden, Germany (2021).

## Lectures

1. Bestmann J. **Diagnostics of autoimmune gastrointestinal diseases: Celiac disease – Autoimmune gastritis – CIBD**. SiSLOMIL Conference, Brno, Czech Republic (2021).
2. Braasch J. **A new approach for accurate detection of *Trichinella spiralis* in slaughtered pigs**. Tagung der DVG Fachgruppe "Parasitologie und parasitäre Krankheiten", virtual congress (2021).
3. Braasch J. **A new approach for sample preparation and objective detection of specific *Trichinella spiralis* antigens using a chemiluminescence immunoassay**. 28th International Conference of the World Association for the Advancement of Veterinary Parasitology, virtual congress (2021).
4. Burmeister Y. **Serological and urinary diagnostics of different autoimmune nephropathies**. 42 Congreso Nacional de la Sociedad Española de Inmunología (SEI), virtual congress (2021).
5. Cavalar M. **Molekulare Infektionsdiagnostik**. Vortragsreihe "Science meets Industry" at the University of Kiel, Kiel, Germany (2021).
6. Dieckmann K. **Beyond COVID-19 vaccination – Testing the humoral and cellular immune response**. Webinar EUROIMMUN Asia: "Dynamics of immune response against SARS-CoV-2" (2021).
7. Ens K. **Automation and artificial intelligence in diagnostic immunofluorescence microscopy using EUROPattern**. Omnia Health Webinar (2021).
8. Harder M. **EUROArray Dermatomycosis: Moderne Diagnostik in der Mykologie**. ÖGHMP News – Update Mykologie: Neue Erkenntnisse und Entwicklungen, virtual congress (2021).
9. Komorowski L. **Detection methods and strategies for novel neuronal autoantibodies**. 15th Dresden Symposium on Autoantibodies, Dresden, Germany (2021).
10. Krauth J. **Artificial intelligence: automated immunofluorescence pattern recognition 2.0**. 15th Dresden Symposium on Autoantibodies, Dresden, Germany (2021).
11. Lindae A. **Challenges of serological autoimmune diagnostics with focus on systemic sclerosis**. INOCHEM (Mexico) Autoimmunity Workshop, virtual contribution (2021).
12. Rosenstock P. **SARS-CoV-2 diagnostics**. SiSLOMIL Conference, Brno, Czech Republic (2021).
13. Rothfuß S, Ade E. **Molekulare Infektionsdiagnostik bei der EUROIMMUN**. Open Campus Kiel, Kiel, Germany (2021).
14. Stiba K. **Complete solution to support the diagnosis of COVID-19**. 6th International Clinical Microbiology Congress (Turkey) – EUROIMMUN Turkey Satellite Symposium, virtual congress (2021).
15. Wetzel S. **Ganz schön ausgefuchst! – Zuverlässige Allergiediagnostik mit Multiparametertests von EUROIMMUN**. Qualitätszirkel der Lübecker HNO-Ärzte (2021).
16. Zonta MA. **Prevalences of STI and HPV in a women's prison in the state capital of Sao Paulo, Brazil**. Congress of the European Research Organization on Genital Infection and Neoplasia (EUROGIN), virtual congress (2021).

## Published Patent Applications

1. Becker A et al. **Detection of an autoantibody**. European and US patent application EP3786641 (filed 2020) and US2021/0063393A1 (filed 2020).
2. Bernitt E et al. **Vorrichtung und Verfahren zur Identifikation von Deckglasbereichen eines Objektträgers**. European and International patent application EP3839596 (filed 2019) and WO2021/122888 (filed 2020).
3. Dähnrich C et al. **An improved autoantibody detection assay**. International patent application WO2021/023836 (filed 2020).
4. Dettmann IM et al. **Method for the detection of autoantibody to acetylcholine receptor**. European and Singaporean patent application EP3842802 (filed 2020) and 10202012737T (filed 2020).
5. Filippis C et al. **Verfahren zur qualitativen Auswertung von Real-Time PCR Daten**. European and International patent application EP3839958 (filed 2019) and WO2021/123171 (filed 2020).
6. Gruhne J et al. **Method for detecting basophil activation**. Brazilian patent application BR102020000922-2 (filed 2018).
7. Hagen-Eggert M et al. **Verfahren und Mikroskopiersystem zum Aufnehmen eines mikroskopischen Fluoreszenzbildes eines Probenbereiches mit einer biologischen Probe**. Brazilian patent application BR102019026948-0 (filed 2019).
8. Harder M et al. **Assay for the diagnosis of dermatophytosis**. European, Australian and US patent application EP3926055 (filed 2018), 2018202209 (filed 2018) and US2021/0254184A1 (filed 2021).
9. Honorat JA et al. **Assessing and treating autoimmune ataxia**. European and US patent application EP3819156 (filed 2019) and US2021/0311047A1 (filed 2019).
10. Krauth J et al. **Detektion von Präsenzen unterschiedlicher antinukleärer Antikörper-Fluoreszenzmustertypen und Vorrichtung hierfür**. European, Chinese and US patent application EP3767587 (filed 2019), CN112240878A (filed 2020) and US2021/0019883A1 (filed 2020).
11. Marzahl C et al. **Bildverarbeitungsverfahren zum Anzeigen von Zellen mehrere Gesamtbilder**. European and US patent application EP3876193 (filed 2020) and US2021/0272279 (filed 2021).
12. Miske R et al. **Diagnosis of neurological disease**. European and US patent application EP3839511 (filed 2020) and US2021/0181196A1 (filed 2020).
13. Morgenroth K et al. **Verfahren zum automatisierten Detektieren von Antikörpern in einer flüssigen biologischen Probe unter Verwendung eines Antigen-Chips und Antigen-Chip hierfür / Method for automated detection of antibodies in a liquid biological sample using an antigen chip, and antigen chip therefore**. Chinese, Brazilian and US patent application CN112334775A (filed 2019), BR112020023867-8 (filed 2019) and US2021/0245152A1 (filed 2019).
14. Menge B et al. **A novel assay for the diagnosis of nematode infections**. European, Chinese and US patent application EP3761029 (filed 2020), CN112180096A (filed 2020) and US2021/0003591A1 (filed 2020).
15. Probst C et al. **Serological detection of Plasmodium antibodies**. Brazilian patent application BR102020000922-2 (filed 2020).
16. Probst C et al. **Improved detection of NMDA receptor autoantibodies**. International patent application WO2021/048263 (filed 2020).
17. Rolf A et al. **A method and reagents for the diagnosis of MN**. International patent application WO2021/023816 (filed 2020).

18. Steinhagen K et al. **An immunoassay for the diagnosis of viral infections**. US patent application US2021/0033609A1 (filed 2017).
19. Steinhagen K et al. **Methods and reagents for diagnosis of SARS-CoV-2 infection**. European, German, Spanish, International, Chinese, Japanese, Canadian and US patent application EP3869199 (filed 2020), EP3869200 (filed 2020), EP3809137A1 (filed 2021), DE21158065T1 (filed 2021), ES21158065T1 (filed 2021), WO2021/165448A1 (filed 2021), CN113557431A (filed 2021), JP2021167805A (filed 2021), CA3109607A1 (filed 2021) and US2021/0190797A1 (filed 2021).
20. Stöcker W et al. **A method for determining the efficacy of a SARS-CoV-2 vaccine**. European and International patent application EP3855186 (filed 2021) and WO2021/229078 (filed 2021).
21. Suer W et al. **An improved assay for the diagnosis of peanut allergy**. Chinese patent application CN113777325A (filed 2017).

## 2020

### Publications

1. Abu-Dayyeh I, Abu-Kwaik J, Weimann A, Abdelnour A. **Prevalence of IgE-mediated sensitization in patients with suspected food allergic reactions in Jordan**. Immun Inflamm Dis 8(3):384-392 (2020).
2. Aubreville M, Bertram CA, Donovan TA, Marzahl C, Maier A, Klopffleisch R. **A completely annotated whole slide image dataset of canine breast cancer to aid human breast cancer research**. Sci Data 7:417 (2020).
3. Aubreville M, Bertram CA, Marzahl C, Gurtner C, Dettwiler M, Schmidt A, Bartenschlager F, Merz S, Fragoso M, Kershaw O, Klopffleisch R, Maier A. **Deep learning algorithms outperform veterinary pathologists in detecting the mitotically most active tumor region**. Sci Rep10:16447 (2020).
4. Bossuyt X, Dillaerts D, Mahler M, Roggenbuch D, Leinfelder U, Hammar F, Schlumberger W, Olschowka N, Damoiseaux J. **Standardisation of PR3-ANCA and MPO-ANCA: evaluation of certified reference materials**. Ann Rheum Dis 79(11):1520-1522 (2020).
5. Bossuyt X, Damoiseaux J, Rasmussen N, van Paassen P, Hellmich B, Baslund B, Blockmans D, Vermeersch P, Lopez-Hoyos M, Vercammen M, Barret E, Hammar F, Leinfelder U, Mahler M, Olschowka N, Roggenbuch D, Schlumberger W, Walker R, Rönnelid J, Tervaert JWC, Csernok E, Fierz W, European Federation of Laboratory Medicine (EFLM) Task and Finish Group "Autoimmunity Testing," European Autoimmune Standardization Initiative (EASI), European Consensus Finding Study Group on autoantibodies (ECFSG). **Harmonization of antineutrophil cytoplasmic antibodies (ANCA) testing by reporting test result-specific likelihood ratios: position paper**. Clin Chem Lab Med 59(2):e35-e39 (2020).
6. Boulo S, Kuhlmann J, Andreasson U, Brix B, Venkataraman I, Herbst V, Rutz S, Manuilova E, Vandijck M, Dekeyser F, Bjerke M, Pannee J, Charoud-Got J, Auclair G, Mazoua S, Pinski G, Trapmann S, Schimmel H, Emons H, Quaglia M, Portelius E, Korecka M, Shaw LM, Lame M, Chambers E, Vanderstichele H, Stoops E, Leinenbach A, Bittner T, Jenkins RG, Kostanjevecki V, Lewczuk P, Gobom J, Zetterberg H, Zegers I, Blennow K. **First amyloid  $\beta$ 1-42 certified reference material for re-calibrating commercial immunoassays**. Alzheimers Dement 16(11):1493-1503 (2020).
7. Braasch J, Ostermann S, Mackiewicz M, Bardot C, Pagneux C, Borchardt-Lohölter V, Lattwein E. **Trichinella spiralis – New method for sample preparation and objective detection of specific antigens using chemiluminescence immunoassay**. Vet Parasitol X 4:100033

(2020).

8. Corman VM, Nagy P, Ostermann S, Arloth J, Liljander A, Barua R, Gupta AD, Hakimuddin F, Juhasz J, Wernery U, Drosten C. **Hepatitis E virus genotype 7 RNA and antibody kinetics in naturally infected dromedary calves, United Arab Emirates.** Emerg Inf Dis 26(9):2214-2217 (2020).
9. Dähnrich C, Saschenbrecker S, Gunnarsson I, Schlumberger W, Ronco P, Debiec H. **Development of a standardized chemiluminescence immunoassay for the detection of autoantibodies against human M-type phospholipase A2 receptor in primary membranous nephropathy.** Kidney Int Rep 5(2):182-188 (2020).
10. Derer S, Brethack AK, Pietsch C, Jendrek ST, Nitzsche T, Bokemeyer A, Hov JR, Schäffler H, Bettenworth D, Grassl GA, Sina C. **Inflammatory bowel disease-associated GP2 autoantibodies inhibit mucosal immune response to adherent-invasive bacteria.** Inflamm Bowel Dis 26(12):1856–1868 (2020).
11. Dubey D, Honorat JA, Shelly S, Klein CJ, Komorowski L, Mills JR, Brakopp S, Probst C, Lennon VA, Pittock SJ, McKeon A. **Contactin-1 autoimmunity: Serologic, neurologic, and pathologic correlates.** Neurol Neuroimmunol Neuroinflamm 7(4):e771 (2020).
12. Efthymiou G, Liaskos C, Simopoulou T, Marou E, Patrikiou E, Scheper T, Meyer W, Daoussis D, Sakkas LI, Bogdanos DP. **Antigen-specific humoral responses against Helicobacter pylori in patients with systemic sclerosis.** Immunol Res 68(1):39-47 (2020).
13. Ehlers AM, Otten HG, Wierzba E, Flügge U, Le TM, Knulst AC, Suer W. **Detection of specific IgE against linear epitopes from Gal d 1 has additional value in diagnosing hen's egg allergy in adults.** Clin Exp Allergy 50(12):1415-1423 (2020).
14. Ehlers AM, Rohwer S, Otten HG, Brix B, Le TM, Suer W, Knulst AC. **IgE-binding to vicilin-like antimicrobial peptides is associated with systemic reactions to macadamia nut.** Clin Transl Allergy 10(1):55 (2020).
15. Gkoutzourelas A, Liaskos C, Simopoulou T, Katsiari C, Efthymiou G, Scheper T, Meyer W, Tsirogianni A, Tsigalou C, Dardiotis E, Daoussis D, Sakkas LI, Bogdanos DP. **A study of antigen-specific anti-cytomegalovirus antibody reactivity in patients with systemic sclerosis and concomitant anti-Ro52 antibodies.** Rheumatol Int 40(10):1689-1699 (2020).
16. Hall S, Janelidze S, Zetterberg H, Brix B, Mattsson N, Surova Y, Blennow K, Hansson O. **Cerebrospinal fluid levels of neurogranin in Parkinsonian disorders.** Mov Disord 35(3):513-518 (2020).
17. Janik M, Płaczowska S, Woźniak M, Bil-Lula I. **Analysis of multiple risk factors for seronegative rate of anti-tick-borne encephalitis virus immunization in human serum.** Medicina (Kaunas) 56(2):255 (2021).
18. Kosinski J, Jarecki J, Przepiorka-Kosinska J, Ratajczak M. **Hyaluronic acid in orthopedics.** Wiad Lek 73(9 cz. 1):1878-1881 (2020).
19. Marzahl C, Aubreville M, Bertram CA, Stayt J, Jasensky AK, Bartenschlager F, Fragoso-Garcia M, Barton AK, Elsemann S, Jabari S, Krauth J, Madhu P, Voigt J, Hill J, Klopffleisch R, Maier A. **Deep learning-based quantification of pulmonary hemosiderophages in cytology slides.** Sci Rep 10:9795 (2020).
20. Mastroianni-Kirsztajn G, Hornig N, Schlumberger W. **Corrigendum: Autoantibodies in renal diseases - clinical significance and recent developments in serological detection.** Front Immunol 11(11):424 (2020).
21. Naides SJ, Genzen JR, Abel G, Bashleben C, Ansari MQ. **Antinuclear antibodies testing method variability: a survey of participants in the College of American Pathologists' Proficiency Testing Program.** J Rheumatol 47(12):1768-1773 (2020).
22. Naides SJ. **Correctly interpreting SARS-CoV-2 serologic assays.** Clin Chem 66(9):1244-1245 (2020).
23. Patrikiou E, Liaskos C, Mavropoulos A, Ntavari N, Gkoutzourelas A, Simopoulou T, Fechner K,



- Scheper T, Meyer W, Katsiari CG, Roussaki-Schulze A, Zafiriou E, Sakkas LI, Bogdanos DP. **Autoantibodies against specific nuclear antigens are present in psoriatic disease and are diminished by secukinumab.** Clin Chim Acta 510:400-407 (2020).
24. Jarius S, Pellkofer H, Siebert N, Korporal-Kuhnke M, Hümmert MW, Ringelstein M, Rommer PS, Ayzenberg I, Ruprecht K, Klotz L, Asgari N, Zrzavy T, Höftberger R, Tobia R, Buttmann M, Fechner K, Schanda K, Weber M, Asseuer S, Haas J, Lechner C, Kleiter I, Aktas O, Trebst C, Rostasy K, Reindl M, Kümpfel T, Paul F, Wildemann B; in cooperation with the Neuromyelitis Optica Study Group (NEMOS). **Cerebrospinal fluid findings in patients with myelin oligodendrocyte glycoprotein (MOG) antibodies. Part 1: Results from 163 lumbar punctures in 100 adult patients.** J Neuroinflammation 17(1):261 (2020).
  25. Ratajczak M, Poleszak E, Chroscicki T. **Immunodiagnosis in membranous nephropathy.** Wiad Lek 73(9 cz. 1):1861-1866 (2020).
  26. Reichert S, Jurianz E, Pütz N, Schlumberger W, Dähnrich C, Johannsen N, Altermann W, Schlaf G, Keyßer G, Schaefer C, Schaller HG, Schulz S. **Is periodontitis a prognostic factor in order to indicate antibodies against citrullinated peptides in patients with rheumatoid arthritis?** Clin Exp Rheumat 38:227-238 (2020).
  27. Reindl M, Schanda K, Woodhall M, Tea F, Ramanathan S, Sagen J, Fryer JP, Mills J, Teegen B, Mindorf S, Ritter N, Krummrei U, Stöcker W, Eggert J, Flanagan EP, Ramberger M, Hegen H, Rostasy K, Berger T, Leite MI, Palace J, Irani SR, Dale RC, Probst C, Probst M, Brilot F, Pittock SJ, Waters P. **International multicenter examination of MOG antibody assays.** Neurol Neuroimmunol Neuroinflamm 7(2):e674 (2020).
  28. Richter CD. **Response to „Continental Drift? Do European clinical genetic testing laboratories have a patent problem?“** Eur J Hum Genet 28(5):535-536 (2020).
  29. Tsouris Z, Liaskos C, Dardiotis E, Scheper T, Tsimourtou V, Meyer W, Hadjigeorgiou G, Bogdanos DP. **A comprehensive analysis of antigen-specific autoimmune liver disease related autoantibodies in patients with multiple sclerosis.** Auto Immun Highlights 11(1):7 (2020).
  30. Schmidt E, Steinhagen K, Rupp J. **Heavy exposure of children aged 9 to 12 years with SARS-CoV-2 did not lead to infection.** J Pediatric Infect Dis Soc 9(5):620–621 (2020).
  31. Steiner J, Schiltz K, Stoecker W, Teegen B, Dobrowolny H, Meyer-Lotz G, Pennewitz M, Borucki K, Frodl T, Bernstein HG. **Association of thyroid peroxidase antibodies with anti-neuronal surface antibodies in health, depression and schizophrenia - Complementary linkage with somatic symptoms of major depression.** Brain Behav Immun 90:47-54 (2020).
  32. Van Beek N, Krüger S, Fuhrmann T, Lemcke S, Goletz S, Probst C, Komorowski L, Di Zenzo G, Dmochowski M, Drenovska K, Horn M, Jedlickova H, Kowalewski C, Medenica L, Murrell D, Patsatsi A, Geller S, Uzun S, Vassileva S, Zhu X, Fechner K, Zillikens D, Stöcker W, Schmidt E, Rentzsch K. **Multicenter prospective study on multivariant diagnostics of autoimmune bullous dermatoses using the BIOCHIP technology.** J Am Acad Dermatol 83(5):1315-1322 (2020).
  33. Venkataraman I, Naides SJ. **The development of new diagnostic tests for neurologic disorders in the commercial laboratory environment.** Clin Lab Med 40(3):331-339 (2020).
  34. Warnecke JM, Pollmann M, Borchardt-Lohölter V, Moreira-Soto A, Kaya S, Gamze Sener A, Gómez-Guzmán E, Figueroa-Hernández L, Li W, Li F, Buska K, Zakaszewska K, Ziolkowska K, Janz J, Ott A, Scheper T, and Meyer W. **Seroprevalences of antibodies against ToRCH infectious pathogens in women of childbearing age residing in Brazil, Mexico, Germany, Poland, Turkey and China.** Epidemiol Infect 148:E271 (2020).
  35. Zelini P, Fornara C, Furione M, Sarasini A, Klemens J, Arossa A, Spinillo A, Gerna G, Lilleri D. **Determination of anti-p52 IgM and anti-gB IgG by ELISA as a novel diagnostic tool for detection of early and late phase of primary human cytomegalovirus infections during pregnancy.** J Clin Virol 120:38-43 (2020).

## Abstracts & Posters

1. Aubreville M, Bertram CA, Jabari S, Marzahl C, Klopffleisch R, Maier A. **Inter-species, inter-tissue domain adaptation for mitotic figure assessment - learning new tricks from old dogs**. Bildverarbeitung für die Medizin, virtual congress (2020).
2. Bertram CA, Aubreville M, Marzahl C, Maier A, Klopffleisch R. **How big is big enough? A large-scale histological dataset of mitotic figures**. Bildverarbeitung für die Medizin. virtual congress (2020).
3. Bertram CA, Veta M, Marzahl C, Stathonikos N, Maier A, Klopffleisch R, Aubreville M. **Are pathologist-defined labels reproducible? Comparison of the TUPAC16 mitotic figure dataset with an alternative set of labels**. 23. International Conference on Medical Image Computing & Computer Assisted Intervention, virtual congress (2020).
4. Braasch J, Ostermann S, Mackiewicz M, Liljander A, Borchardt-Lohölter V, Lattwein E, Schlumberger W. **New approach for the detection of Trichinella spiralis in slaughtered pigs**. 6. World One Health Congress, virtual conference (2020).
5. Ehlers AM, Rohwer S, Otten HG, Brix B, Le TM, Suer W, Knulst AC. **Vicilin-like antimicrobial peptides from macadamia nut are clinically relevant allergens**. European Academy of Allergy & Clinical Immunology (EAACI), virtual congress (2020).
6. Gebhardt AK, Klemens O, Sabalza M, Stiba K, Saschenbrecker S, Steinhagen K. **Comparison of enzyme-linked immunosorbent assays for the diagnosis of dengue virus infections**. 3. International Conference on Zika Virus and Aedes Related Infections, Washington DC, USA (2020).
7. Hoffmann K, Rosenstock P, Borchardt-Lohölter V, Dichtl K, Seybold U, Ormanns S, Horns H, Wagener J, Herbst V. **Diagnostic performance of a novel Aspergillus antigen ELISA**. 30. European Congress of Clinical Microbiology & Infectious Diseases, Paris, France (2020).
8. Marzahl C, Bertram CA, Aubreville M, Petrick A, Weiler K, Gläsel AC, Fragoso M, Merz S, Bartenschlager F, Hoppe J, Langenhagen A, Jasensky AK, Voigt J, Klopffleisch R, Maier A. **Are fast labeling methods reliable? A case study of computer-aided expert annotations on microscopy slides**. 23. International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI), virtual congress (2020).
9. Marzahl C, Aubreville M, Bertram CA, Gerlach S, Maier J, Voigt J, Hill J, Klopffleisch R, Maier A. **Is crowd-algorithm collaboration an advanced alternative to crowd-sourcing on cytology slides?** International workshop on Algorithmen - Systeme - Anwendungen, virtual Workshop (2020).
10. Marzahl C, Aubreville M, Voigt J, Maier A. **Classification of leukemic B-lymphoblast cells from blood smear microscopic images with an attention-based deep learning method and advanced augmentation techniques**. IEEE International Symposium on Biomedical Imaging (ISBI), virtual congress (2020).
11. Menge B, Klemens O, Klemens JM, Sabalza M, Jittmittraphap A, Leungwutiwong P, Steinhagen K. **Testing for specific serum IgA in addition to IgM has an added value in acute secondary dengue virus infections**. 2. Polythematic Autoimmune Congress, virtual congress (2020).
12. Miske R, Scharf M, Jäger D, Hahn S, Denno Y, Bankhadra F, Rochow N, Probst C, Teegen B, Stöcker W, Komorowski L. **Identification of DAGLA as an autoantibody target in cerebellar or hippocampal degeneration**. 2. Polythematic Autoimmune Congress, virtual congress (2020).
13. Moraes Soane M, Freitas Henriques D, Abreu Lima J, Caricio Martins L, Muigg N, Sabalza M, Klemens O, Steinhagen K. **Novel screening ELISA for sensitive detection of Mayaro virus-infected patients**. 3. International Conference on Zika Virus and Aedes Related Infections, Washington DC, USA (2020).
14. Pollmann M, Borchardt-Lohölter V, Moreira-Soto A, Kaya S, Gamze Sener A, Gómez-Guzmán E, Figueroa-Hernández L, Li W, Li F, Buska K, Zakaszewska K, Ziolkowska K, Janz J, Ott A,

Scheper T, Meyer W. **Seroprevalences of ten ToRCH infectious pathogens in women residing in Europe, Latin America and China**. 30. European Congress of Clinical Microbiology & Infectious Diseases, Paris, France (2020).

15. Weisser H, Steinhagen K, Höcker R, Borchardt-Lohölter V, Anvari Ö, Kern PM. **Evaluation of dried blood spots as alternative sampling material for serological detection of anti-SARS-CoV-2 antibodies using established ELISAs**. ESCMID Conference on Coronavirus Disease (ECCVID), virtual conference (2020).

## Lectures

1. Cavalar M. **Molekulare Infektionsdiagnostik bei der EUROIMMUN**. Open Campus Kiel, Webinar (2020).
2. Dörpinghaus M.: **Molecula Allergy Diagnostics - Differential diagnostics in a new dimension**. Congress of the Venezuelan Society of Allergy, Asthma and Immunology, virtual congress (2020).
3. Karl I. **Diagnosis of coeliac disease and autoimmune liver diseases in light of recent guidelines**. Diagnosis approach of autoimmune diseases in hepatology and gastroenterology, Webinar (2020).
4. Langenstroth-Rower D. **USFDA EUA approved COVID 19 EURORealTime PCR**. Webinar CPC Diagnostics Pvt Ltd (2020).
5. Rosenstock P. **Current status of COVID-19 serological laboratory testing**. Dynex COVID-19 Webinar (2020).
6. Rosenstock P. **IgA Antibodies in the diagnosis of SARS-CoV-2**. Landmark Symposium Fundacion Fernandez-Cruz, Webinar (2020).
7. Sendscheid O. **Primary membranous nephropathy – What we know about autoantibodies**. 2. Polythematic Autoimmune Congress, virtual congress (2020).
8. Sendscheid O. **Identification of DAGLA as an autoantibody target in cerebellar or hippocampal degeneration**. AACC Academy's Virtual Annual Scientific Meeting (2020).
9. Stiba K. **Complete Solution to support the diagnosis of COVID-19**. Webinar EUROIMMUN China/ESEG (2020).
10. Stiba K. **Current status of COVID-19 serological laboratory testing**. Czech Republic. Webinar (2020).
11. Stiba K. **EUROIMMUN SARS-CoV-2 diagnostics – Reliable serological tools**. Special Covid-19 Session of the African Society for Laboratory Medicine, Webinar (2020).
12. Stiba K. **Serology testing in SARS-CoV-2 virus pandemic**. Webinar PerkinElmer (2020).
13. Stiba K. **USFDA EUA approved COVID 19 Serological solutions**. Webinar CPC Diagnostics Pvt Ltd (2020).
14. Wetzel S. **Finden statt suchen – Zuverlässige Allergiediagnostik mit Multiparametertests von EUROIMMUN**. Interactive Workshop by Bencard and EUROIMMUN, Düsseldorf, Germany (2020).

## Published Patent Applications

1. Dähnrich C, Komorowski L, Probst C. **Verfahren zur Diagnose von Autoimmungastritis AIG pr3**. European, US and Chinese patent application EP3671212 (filed 2019), US-2020-0191785-A1 (filed 2019) and CN111337676A (filed 2019).
2. Eggert-Gospo D, Rateike M, Stöcker W, Rottmann N. **Beschichtete Festphasenfragmente und deren Herstellung**. European and US patent application EP3591400 (filed 2018) and US-2020-0003763-A1 (filed 2019).



3. Eggert-Gospos D, Kaffka C, Rottmann N, Stöcker W. **Inkubationsvorrichtung und Verfahren zum Färben einer Probe**. European patent application EP3699572 (filed 2019).
4. Gerlach S, Marzahl C, Danckwardt M, Voigt J. **Verfahren zum Detektieren einer Bindung von Antikörpern einer Patientenprobe an doppelsträngige DNS unter Verwendung von Crithidia luciliae Zellen und Fluoreszenzmikroskopie**. European, US and Chinese patent application EP3712618 (filed 2019), US-2020-0300764-A1 (filed 2020) and CN111707828A (filed 2020).
5. Hagen-Eggert M, Sumpf TJ. **Verfahren und Mikroskopiersystem zum Aufnehmen eines mikroskopischen Fluoreszenzbildes eines Probenbereiches mit einer biologischen Probe**. European, US and Chinese patent application EP3671309 (filed 2018), US-2020-0200682-A1 (filed 2019) and CN111352228A (filed 2019).
6. Huth B, Kowtun A, Koschinat L, Mollenhauer F, Stöcker W. **Druckdichtes Vorratsgefäß enthaltend eine Flüssigkeit**. European, Brazilian, Chinese, Japanese and Singaporean patent application EP3669981 (filed 2018), BR102019025839-0 (filed 2019), CN111348330A (filed 2019), 2020-118678 (filed 2019) and 10201912830Y (filed 2019).
7. Kaffka C, Rateike M, Stöcker W. **Inkubationsvorrichtung sowie System mit Inkubationsvorrichtung und Wipptisch**. Brazilian and European patent application BR112019008743-5 (filed 2018) and EP3684515 (filed 2018).
8. Morgenroth K, Viertel V, Steller U, Gerlach S, Marzahl C, Voigt J, Stöcker W. **Vorrichtung und Verfahren zur Antikörperdetektion**. European (1), European (2), US and Chinese patent application EP3591406 (filed 2018), EP3591402 (filed 2019), US-2020-0011862-A1 (filed 2019) and CN110687082A (filed 2019).
9. Morgenroth K, Viertel V, Steller U, Gerlach S, Marzahl C, Voigt J, Stöcker W. **Verfahren zum automatisierten Detektieren von Antikörpern in einer flüssigen biologischen Probe unter Verwendung eines Antigen-Chips**. European (1) and European (2) patent application EP3591401 (filed 2018) and EP3591403 (filed 2019).
10. Morgenroth K, Viertel V, Steller U, Gerlach S, Marzahl C, Voigt J, Stöcker W. **Verfahren zum automatisierten Detektieren von Antikörpern in einer flüssigen biologischen Probe unter Verwendung eines Antigen-Chips und Antigen-Chip hierfür**. International patent application WO2020/007597 (filed 2019).
11. Probst C, Deerberg A, Steinhagen K, Böthfür J, Kruse T, Klemens O, Menge B, Unger M. **Serological detection of Plasmodium antibodies**. European and South African patent application EP3667322 (filed 2019) and 3686601 (filed 2020).
12. Probst C, Radzimski C, Komorowski L, Schlumberger W, Stöcker W, Zilikens D, Hammers C, Schmidt E, Goletz S. **Diagnose blasenbildender Autoimmunkrankheiten**. Chinese, European (1), European (2), Singaporean, US and Japanese patent application CN111072768A (filed 2019), EP3644060 (filed 2019), EP3644061 (filed 2019), SG10201908826U (filed 2019), US2020/0123230 (filed 2019) and 2020-090477 (filed 2019).
13. Scharf M, Komorowski L, Miske R, Hahn S, Denno Y, Probst C, Benkhadra F. **Diagnosis of a neuroautoimmune disease**. US, Chinese and European patent application US2020/0096506 (filed 2019), CN111175484A (filed 2019) and EP3629021 (filed 2019).
14. Steinhagen K, Deerberg A, Lattwein L, Radziemski C, Böthfür J. **An immunoassay for the diagnosis of viral infections**. US patent application US-2019-0383814-A1 (filed 2017).
15. Steinhagen K, Messing, Charité Universitätsmedizin. **A method and reagents for the diagnosis of SARS-CoV-2**. European patent application EP3715847 (filed 2020).
16. Sumpf TJ, Pannhoff H, Müller M, Morrin M, Hagen-Eggert M. **Verfahren und Mikroskopiersystem zum Aufnehmen eines Bildes**. Chinese, European, Brazilian, US and Japanese patent application CN110785692A (filed 2018), EP3642660 (filed 2018), BR112019025303-3 (filed 2018), US-2020-0209599-A1 (filed 2018) and 2020-524819 (filed 2018).
17. Sumpf TJ, Pape M, Hagen-Eggert M, Piepke C, Laudan T, Falkert M, Morrin M, Rentzsch K.

**Verfahren und Vorrichtung zum Erfassen und Darstellen eines Immunfluoreszenzbildes einer biologischen Probe.** European, Chinese and Brazilian patent application EP36239798 (filed 2018), CN110895243A (filed 2019) and BR102019018897-9 (filed 2019).

18. Sumpf TJ, Pape M, Hagen-Eggert, M, Piepke C, Laudan T, Falkert M, Morrin M, Rentzsch K. **Verfahren und Vorrichtung zum Erfassen und Darstellen eines Immunfluoreszenzbildes einer biologischen Probe.** Singaporean patent application SG10201908494X (filed 2019).
19. Feirer C, Bernitt E, Paul M, Roznowicz R. **Optical scanning and arrangement method.** US patent application US2020/0379232 (filed 2018).
20. Komorowski L, Miske R, Venkataraman I, Stöcker W, Probst C, Scharf M, Denno Y, Kade S. **Diagnosis of a neuroautoimmune disease.** US patent application US20200309775 (filed 2020).
21. Steinhagen K, Pollmann M, Messing C, Klemens O, Böthfür J. **A novel assay for the diagnosis of viral infections.** European and US patent application 3755709 (filed 2019) and US2020/0385430A1 (filed 2019).
22. Suer W, Klinge M, Weimann A, Rohwer S, Seismann H, Capdevila MP. **A method and products for the diagnosis of a seafood allergy.** Canadian, Chinese, European and US patent application 3083859 (filed 2020), CN112114150A (filed 2020), 3754337 (filed 2020) and US2020/0400665 (filed 2020).
23. Huth B, Kowtun A, Koschinat L, Mollenhauer F, Stöcker W. **Pressure-tight storage vessel containing a liquid.** US patent application US-2020-0198813-A1 (filed 2019).
24. Seismann H, Herbst V, Weimann A, Wichner B, Stöcker W. **Träger und Verfahren zum Nachweis eines Analyten in Dried Blood Spots.** European and US patent application 3730216 (filed 2020) and US2020/0341005A1 (filed 2020).
25. Weimann A, Seismann H, Honold L, Stöcker W. **Probenträger zur Aufnahme von getrockneten Blutbestandteilen und Verfahren zur Gewinnung eines Membranelementes mit getrockneten Blutbestandteilen.** Brazilian, Chinese, Canadian, European and US patent application BR102020010067-0 (filed 2020), CN112114158A (filed 2020), 3083894 (filed 2020), 3753634 (filed 2020) and US2020/0398269 (filed 2020).
26. Komorowski L, Steinhagen K, Stöcker W. **A method for determining the efficacy of a vaccine.** European patent application 3734286 (filed 2020).

## 2019

### Publications

1. Al Kahlout RA, Nasrallah GK, Farag EA, Wang L, Lattwein E, Müller MA, El Zowalaty ME, Al Romaihi HE, Graham BS, Al Thani AA, Yassine HM. **Comparative serological study for the prevalence of anti-MERS coronavirus antibodies in high- and low-risk groups in Qatar.** J Immunol Res 2019:1386740 (2019).
2. Bartels F, Strönisch T, Farmer K, Rentzsch K, Kiecker F, Finke C. **Neuronal autoantibodies associated with cognitive impairment in melanoma patients.** Ann Oncol 30(5):823-829 (2019).
3. Borsche M, Hahn S, Hanssen H, Münchau A, Wandinger KP, Brüggemann N. **Sez612-antibody-associated progressive cerebellar ataxia: a differential diagnosis of atypical parkinsonism.** J Neurol. 266(2):522-524 (2019).
4. De Schaepdryver M, Goossens J, Jeromin A, Brix B, Van Damme P, Poesen K. **Analytical performance of a CE-marked immunoassay to quantify phosphorylated neurofilament heavy chains.** Clin Chem Lab Med 57(8):e199-e202 (2019).

5. De Schaepdryver M, Goossens J, de Meyer S, Jeromin A, Masrori P, Brix B, Claeys KG, Schaefferbeke J, Adamczuk K, Vandergerghe R, van Damme P, Poesen K. **Serum neurofilament heavy chains as early marker of motor neuron degeneration.** *Ann Clin Transl Neurol* 6(10):1971-1979 (2019).
6. Efthymiou G, Dardiotis E, Liaskos C, Marou E, Scheper T, Meyer W, Daponte A, Daoussis D, Hadjigeorgiou G, Bogdanos DP, Sakkas LI. **A comprehensive analysis of antigen-specific antibody responses against human cytomegalovirus in patients with systemic sclerosis.** *Clin Immunol* 207:87-96 (2019).
7. Ehlers AM, Blankestijn MA, Knulst AC, Klinge M, Otten HG. **Can alternative epitope mapping approaches increase the impact of B-cell epitopes in food allergy diagnostics?** *Clin Exp Allergy* 49(1):17-26 (2019).
8. Ehlers AM, Klinge M, Suer W, Weimann Y, Knulst AC, Besa F, Le TM, Otten HG. **Ara h 7 isoforms share many linear epitopes: Are 3D epitopes crucial to elucidate divergent abilities?** *Clin Exp Allergy* 49(11):1512-1519 (2019).
9. Ehlers AM, Rossnagel M, Brix B, Blankestijn MA, Le TM, Suer W, Otten HG, Knulst AC. **Sesame oleosins are minor allergens.** *Clin Transl Allergy* 9:32 (2019).
10. Emtenani S, Yuan H, Lin C, Pan M, Hundt JE, Schmidt E, Komorowski L, Stanley JR, Hammers CM. **Normal human skin is superior to monkey esophagus substrate for detection of circulating BP180-NC16A-specific immunoglobulin G antibodies in bullous pemphigoid.** *Br J Dermatol* 150(5):1099-1106 (2019).
11. Goletz S, Probst C, Komorowski L, Schlumberger W, Fechner K, van Beek N, Holtsche MM, Recke A, Yancey KB, Hashimoto T, Antonicelli F, Di Zenzo G, Zillikens D, Stöcker W, Schmidt E. A. **Sensitive and specific assay for the serological diagnosis of antilaminin 332 mucous membrane pemphigoid.** *Br J Dermatol* 180(1):149-156 (2019).
12. Heinrich J, Drewniak C, Neugebauer E, Kellner H, Wiegert T. **The YoaW signal peptide directs efficient secretion of different heterologous proteins fused to a StrepII-SUMO tag in *Bacillus subtilis*.** *Microb Cell Fact* 18(1):31 (2019).
13. Honorat JA, Lopez-Chiriboga AS, Kryzer TJ, Komorowski L, Scharf M, Hinson SR, Lennon VA, Pittock SJ, Klein CJ, McKeon A. **Autoimmune gait disturbance accompanying adaptor protein-3B2-IgG.** *Neurology* 93(10):e954-e963 (2019).
14. Janelidze S, Stomrud E, Brix B, Hansson O. **Towards a unified protocol for handling of CSF before beta-amyloid measurements.** *Alzheimers Res Ther* 11(1):63 (2019).
15. Krauth J, Gerlach S, Marzahl C, Voigt J, Handels H. **Synthetic training with generative adversarial networks for segmentation of microscopies.** In: Handels H, Deserno T, Maier A, Maier-Hein K, Palm C, Tolxdorff T (Hrsg.) *Bildverarbeitung für die Medizin 2019*. Informatik Aktuell. Springer Vieweg, Wiesbaden, Germany, 37-42 (2019).
16. Lau I, Goletz S, Holtsche MM, Zillikens D, Fechner K, Schmidt E. **Anti-p200 pemphigoid is the most common pemphigoid disease with serum antibodies against the dermal side by indirect immunofluorescence microscopy on human salt-split skin.** *J Am Acad Dermatol* 81(5):1195-1197 (2019).
17. Lytton SD, Osiecki M, Wozniak M, Cukrowska B, Wierzbicka A, Goliszek M, Socha P, Janczyk W, Dayanakli D, Abendroth D, Kramp S, Fechner K, Scheper T, Mahler M, Bentow C, Bogdanos D, Fuchs D, Woynarowski M. **Tryptophan-kynurenine profile in pediatric autoimmune hepatitis.** *Immunol Res* 67(1):39-47 (2019).
18. Mende M, Borchardt-Lohölter V, Meyer W, Scheper T, Schlumberger W. **Autoantibodies in myositis. How to achieve a comprehensive strategy for serological testing.** *Mediterr J Rheumatol* 30(3):155-161 (2019).
19. Moraes Soane M, Freitas Henriques D, Abreu Lima J, Caricio Martins L, Muigg N, Klemens O, Saschenbrecker S, Schlumberger W, Steinhagen K. **Evaluation of a novel IgM screening enzyme-linked immunosorbent assay for sensitive detection of Mayaro virus-infected patients.** *Microbiol Infect Dis* 3(2):1-4 (2019).

20. Moraes Soane M, Freitas Henriques D, Abreu Lima J, Caricio Martins L, Wilhelm N, Fraune J, Klemens O, Steinhagen K. **Novel screening ELISA for sensitive detection of Mayaro virus infected patients.** Int J Infect Dis 79(S1):148 (2019).
21. O'Connor K, Waters P, Komorowski L, Zekeridou A, Guo CY, Mgbachi VC, Probst C, Mindorf S, Teegen B, Gelfand JM, Geschwind MD, Lennon V, Pittock SJ, McKeon A. **GABAA receptor autoimmunity: A multicenter experience.** Neurol Neuroimmunol Neuroinflamm 6(3):e552 (2019).
22. Pan H, Oliveira B, Saher G, Dere E, Tapken D, Mitjans M, Seidel J, Wesolowski J, Wakhloo D, Klein-Schmidt C, Ronnenberg A, Schwabe A, Trippe R, Mätz-Rensing K, Berghoff S, Al-Krinawe Y, Martens H, Begemann M, Stöcker W, Kaup FJ, Mischke R, Boretius S, Nave KA, Krauss JK, Hollmann M, Lühder F, Ehrenreich H. **Uncoupling the widespread occurrence of anti-NMDAR1 autoantibodies from neuropsychiatric disease in a novel autoimmune model.** Mol Psychiatry 24(10):1489-1501 (2019).
23. Royl G, Fokou TJ, Chunder R, Isa R, Münte TF, Wandinger KP, Schwaninger M, Herrmann O, Valdueza JM, Brocke J, Willkomm M, Willemsen D, Auffarth GU, Mindorf S, Brix B, Chamorro A, Planas A, Urrea X. **Antibodies against neural antigens in patients with acute stroke: joint results of three independent cohort studies.** J Neurol 266(11):2772-2779 (2019).
24. Saschenbrecker S, Karl I, Komorowski L, Probst C, Dähnrich C, Fechner K, Stöcker W, Schlumberger W. **Serological diagnosis of autoimmune bullous skin diseases.** Front Immunol 10:1974 (2019).
25. Scheurlen KM, Billeter AT, Kopf S, Herbst V, Block M, Nawroth PP, Zeier M, Scherberich JE, Müller-Stich BP. **Serum uromodulin and Roux-en-Y gastric bypass: improvement of a marker reflecting nephron mass.** Surg Obes Relat Dis 15(8):1319-1325 (2019).
26. Schumacher M, Rommel FR, Arnetz B, Renz H, Stöcker W, Windhorst A, Hahn A, Neubauer BA. **Encephalopathy associated with neurochondrin autoantibodies.** J Child Neurol 34(11):660-665 (2019).
27. Schwenzer A, Quirke AM, Montgomery AB, Venables PJ, Sayles HR, Schlumberger W, Payne JB, Mikuls TR, Midwood KS. **Time to include fine specificity anti-citrullinated protein antibodies in routine diagnosis and management of rheumatoid arthritis?** Arthritis Rheumatol 71(3):476-478 (2019).
28. Shelly S, Kryzer TJ, Komorowski L, Miske R, Anderson MD, Flanagan EP, Hinson SR, Lennon VA, Pittock SJ, McKeon A. **Neurochondrin neurological autoimmunity.** Neurol Neuroimmunol Neuroinflamm 6(6), pii: e612 (2019).
29. Steubl D, Block M, Herbst V, Nockher WA, Schlumberger W, Kemmner S, Bachmann Q, Angermann S, Wen M, Heemann U, Renders L, Garimella PS, Scherberich J. **Urinary uromodulin independently predicts end-stage renal disease and rapid kidney function decline in a cohort of chronic kidney disease patients.** Medicine (Baltimore) 98(21):e15808 (2019).
30. Stöcker W, Schlumberger W. Alle Beiträge zu den Themen Autoimmundiagnostik und Labordiagnostik der Infektionskrankheiten. In: Gressner A, Arndt T (Hrsg.) **Lexikon der Medizinischen Laboratoriumsdiagnostik.** 3. Aufl., Springer Medizin Verlag, Heidelberg (2019).
31. Stricker S, de Laffolie J, Rudloff S, Komorowski L, Zimmer KP. **Intracellular localization of microbial transglutaminase and its influence on the transport of gliadin in enterocytes.** J Pediatr Gastroenterol Nutr 68(3):e43-e50 (2019).
32. Uhrlaß S, Wittig F, Koch D, Krüger C, Harder M, Gaajetaan G, Dingemans G, Nenof P. **Do the new molecular assays – microarray and realtime polymerase chain reaction – for dermatophyte detection keep what they promise?** Hautarzt 70(8):618-626 (2019).
33. Wald A, Schmidt E, Toberer F, Gutschalk A, Rentzsch K, Enk AH, Hoffmann JHO. **Overlap of bullous, anti-laminin-332, and anti-p200 pemphigoid with concomitant anti-contactin-1-positive inflammatory polyneuropathy treated with intravenous immunoglobulins as a**

**manifestation of epitope spreading.** JAMA Dermatol 155(5):631-633 (2019).

34. Warnecke JM, Lattwein E, Saschenbrecker S, Stöcker W, Schlumberger W, Steinhagen K. **Added value of IgA antibodies against Zika virus non-structural protein 1 in the diagnosis of acute Zika virus infections.** J Virol Meth 267:8-15 (2019).
35. Waters PJ, Komorowski L, Woodhall M, Lederer S, Majed M, Fryer J, Mills J, Flanagan EP, Irani SR, Kunchok AC, McKeon A, Pittock SJ. **A multicenter comparison of MOG-IgG cell-based assays.** Neurology 92(11):e1250-e1255 (2019).
36. Xu X, Ren H, Li L, Wang J, Fechner K, Guan H. **Anti-Homer-3 antibody associated cerebellar ataxia: A rare case report and literature review.** J Neuroimmunol 330:155-158 (2019).
37. Zelini P, Fornara C, Furione M, Sarasini A, Klemens J, Arossa A, Spinillo A, Gerna G, Lilleri D. **Determination of anti-p52 IgM and anti-gB IgG by ELISA as a novel diagnostic tool for detection of early and late phase of primary human cytomegalovirus infections during pregnancy.** J Clin Virol 120:38-43 (2019).
38. Grüter T, Ott A, Meyer W, Jarius S, Kinner M, Motte J, Pitarokoli K, Gold R, Komorowski L, Ayzenberg I. **Effects of IVIg treatment on autoantibody testing in neurological patients: marked reduction in sensitivity but reliable specificity.** J Neurol. 267(3):715-720 (2020).
39. Palmqvist S, Insel PS, Stomrud E, Janelidze S, Zetterberg H, Brix B, Eichenlaub U, Dage JL, Chai X, Blennow K, Mattsson N, Hansson O. **Cerebrospinal fluid and plasma biomarker trajectories with increasing amyloid deposition in Alzheimer's disease.** EMBO Mol Med. 11(12):e11170 (2019).
40. Dähnrich C, Saschenbrecker S, Gunnarsson I, Schlumberger W, Ronco P, Debiec H. **Development of a Standardized Chemiluminescence Immunoassay for the Detection of Autoantibodies Against Human M-Type Phospholipase A2 Receptor in Primary Membranous Nephropathy.** Kidney International Reports. 5(2):182-188 (2019).
41. Tappe D, Frank C, Offergeld R, Wagner-Wiening C, Stark K, Rubbenstroth D, Giese S, Lattwein E, Schwemmler M, Beer M, Schmidt-Chanasit J, Wilking H. **Low prevalence of Borna disease virus 1 (BoDV-1) IgG antibodies in humans from areas endemic for animal Borna disease in Southern Germany.** Sci Rep. 9(1):20154 (2019).

## Abstracts & Posters

1. Bieber K, Harder M, Staender S, Fischer A, Koehler B, Anamueller W, Zillikens D, Ludwig R. **Fast and reliable diagnostics for skin infections.** 46. Jahrestagung der Arbeitsgemeinschaft Dermatologische Forschung, München, Germany (2019).
2. Brock J, Herbst V, Block M, Stöcker W. **Die Konzentration des Serum-Uromodulin als Indikator der globalen Nierenfunktion.** Weltnierentag, Greifswald, Germany (2019).
3. Franke AC, Lindhorst F, Sendscheid O, Steinhagen K. **Dried Blood Spots are well-suited specimens for detection of anti-Trypanosoma cruzi antibodies.** Annual Meeting of the Association of Public Health Laboratories, St. Louis, USA (2019).
4. Franke AC, Lindhorst F, Sendscheid O, Steinhagen K. **Dried Blood Spots are well-suited specimens for detection of anti-Trypanosoma cruzi antibodies.** 71. Annual Scientific Meeting of the American Association for Clinical Chemistry & Clinical Lab Expo, Anaheim, USA (2019).
5. Gebhardt AK, Klemens O, Sendscheid O, Stiba K, Saschenbrecker S, Steinhagen K. **Comparison of enzyme-linked immunosorbent assays for the diagnosis of dengue virus infections.** 35. Clinical Virology Symposium of the American Society for Microbiology, Savannah, USA (2019).
6. Gebhardt AK, Klemens O, Stiba K, Saschenbrecker S, Steinhagen K. **Comparison of enzyme-linked immunosorbent assays for the diagnosis of dengue virus infections.** 29. European Congress of Clinical Microbiology and Infectious Diseases, Amsterdam, Netherlands

(2019).

7. Gebhardt AK, Klemens O, Sendscheid O, Stiba K, Saschenbrecker S, Steinhagen K. **Comparison of enzyme-linked immunosorbent assays for the diagnosis of dengue virus infections.** 71. Annual Scientific Meeting of the American Association for Clinical Chemistry & Clinical Lab Expo, Anaheim, USA (2019).
8. Gerlach S, Danckwardt M, Marzahl C, Lederer S, Sendscheid O, Mielke J, Fechner K, Stoecker W, Voigt J. **Deep artificial neural networks for pattern recognition in indirect immunofluorescence microscopy** 71. Annual Scientific Meeting of the American Association for Clinical Chemistry & Clinical Lab Expo, Anaheim, USA (2019).
9. Gerlach S, Danckwardt M, Marzahl C, Lederer S, Sendscheid O, Mielke J, Fechner K, Stoecker W, Voigt J. **Deep artificial neural networks for pattern recognition in indirect immunofluorescence microscopy.** 32. Annual Scientific Meeting of the Association of Medical Laboratory Immunologists, Cleveland, USA (2019).
10. Hoxha E, Stahl RAK, Brix SR, Witte T, Seebeck F, Schlumberger W, Daehnrich C. **Increased sensitivity for PR3-ANCA using a novel chemiluminescence immunoassay.** 19. International Vasculitis and ANCA Workshop, Philadelphia, USA (2019).
11. Honorat JA, Lopez-Chiriboga S, Kryzer TJ, Lennon VA, Komorowski L, Scharf M, Stöcker W, Hinson SR, Pittock SJ, Klein CJ, McKeon A. **Autoimmune gait disturbance accompanying adaptor protein-3B2-IgG.** 14. Dresden Symposium on Autoantibodies, Dresden, Germany (2019).
12. Hoxha E, Stahl RAK, Brix SR, Witte T, Seebeck F, Schlumberger W, Daehnrich C. **Increased sensitivity for PR3-ANCA using a novel chemiluminescence immunoassay.** 14. Dresden Symposium on Autoantibodies, Dresden, Germany (2019).
13. Hoxha E, Stahl RAK, Brix SR, Witte T, Seebeck F, Sendscheid O, Schlumberger W, Daehnrich C. **Increased sensitivity for PR3-ANCA using a novel chemiluminescence immunoassay.** 71. Annual Scientific Meeting of the American Association for Clinical Chemistry & Clinical Lab Expo, Anaheim, USA (2019).
14. Hoxha E, Stahl RAK, Brix SR, Witte T, Seebeck F, Sendscheid O, Schlumberger W, Daehnrich C. **Increased sensitivity for PR3-ANCA using a novel chemiluminescence immunoassay.** 32. Annual Scientific Meeting of the Association of Medical Laboratory Immunologists, Cleveland, USA (2019).
15. Janz J, Ott A, Scheper T, Schlumberger W, Meyer W. **Multiparameter assay for the detection of IgA antibodies in autoimmune gastrointestinal diseases.** 14. Dresden Symposium on Autoantibodies, Dresden, Germany (2019).
16. Janz J, Ott A, Scheper T, Schlumberger W, Meyer W. **Multiparameter assay for the detection of IgG antibodies in autoimmune gastrointestinal diseases.** 14. Dresden Symposium on Autoantibodies, Dresden, Germany (2019).
17. Janz J, Ott A, Scheper T, Schlumberger W, Meyer W. **Multiparameter lineblot for autoimmune inflammatory myopathies: Addition of cN-1A for the detection of autoantibodies associated with Inclusion Body Myositis.** 14. Dresden Symposium on Autoantibodies, Dresden, Germany (2019).
18. Klemens O, Boethfuer J, Wong SJ, Klemens JM, Binnenkade L, Sendscheid O, Steinhagen K. **Development of Anti-Powassan ELISA for the detection of specific antibodies based on different antigenic substrates.** Annual Meeting of the Association of Public Health Laboratories, St. Louis, USA (2019).
19. Kühnl A, Dähnrich C, Saschenbrecker S, Gunnarsson I, Ronco P, Debiec H, Schlumberger W. **A newly developed chemiluminescence immunoassay improves the detection of anti-PLA2R autoantibodies in primary membranous nephropathy.** 14. Dresden Symposium on Autoantibodies, Dresden, Germany (2019).
20. Kühnl A, Saschenbrecker S, Komorowski L, Probst C, Pesce G, Schlumberger W, Dähnrich. **Novel ELISA to aid the diagnosis of autoimmune gastritis.** 14. Dresden Symposium on



Autoantibodies, Dresden, Germany (2019).

21. Lattwein E, Janku M, Bohm K, Lederer S, Fechner K. **Investigation of serological cross-reactivity within the alphavirus genus using IFA BIOCHIP mosaics**. 29. European Congress of Clinical Microbiology and Infectious Diseases, Amsterdam, Netherlands (2019).
22. Mende M, Meyer W, Scheper T. **Laboratory diagnostics of autoantibodies in autoimmune myopathies**. 3. Global Conference on Myositis, Berlin, Germany (2019).
23. Miske R, Scharf M, Borchers C, Denno Y, Teegen B, Rochow N, Probst C, Stöcker W, Kermer P, Komorowski L. **Identification of RGS8 as an autoantibody target in paraneoplastic cerebellar syndrome**. 14. Dresden Symposium on Autoantibodies, Dresden, Germany (2019).
24. Miske R, Scharf M, Hahn S, Denno Y, Benkhadra F, Rochow N, Probst C, Teegen B, Stöcker W, Komorowski L. **Identification of DAGLA as an autoantibody target in cerebellar or hippocampal degeneration**. 14. Dresden Symposium on Autoantibodies, Dresden, Germany (2019).
25. Moraes Soane M, Freitas Henriques D, Abreu Lima J, Caricio Martins L, Muigg N, Klemens O, Steinhagen K. **Novel screening ELISA for sensitive detection of Mayaro virus-infected patients**. 29. European Congress of Clinical Microbiology and Infectious Diseases, Amsterdam, Netherlands (2019).
26. Moraes Soane M, Freitas Henriques D, Abreu Lima J, Caricio Martins L, Muigg N, Klemens O, Stiba K, Steinhagen K. **Novel screening ELISA for sensitive detection of Mayaro virus-infected patients**. 7. Meeting of the European Society for Virology, European Congress of Virology, Rotterdam, Netherlands (2019).
27. Moraes Soane M, Freitas Henriques D, Abreu Lima J, Caricio Martins L, Muigg N, Sendscheid O, Klemens O, Steinhagen K. **Novel screening ELISA for sensitive detection of Mayaro virus-infected patients**. 35. Clinical Virology Symposium of the American Society for Microbiology, Savannah, USA (2019).
28. Moraes Soane M, Freitas Henriques D, Abreu Lima J, Caricio Martins L, Muigg N, Sendscheid O, Klemens O, Steinhagen K. **Novel screening ELISA for sensitive detection of Mayaro virus-infected patients**. 71. Annual Scientific Meeting of the American Association for Clinical Chemistry & Clinical Lab Expo, Anaheim, USA (2019).
29. Pfautsch S, Warnecke JM, Menge B, Klemens O, Klemens JM, Steinhagen K. **Sensitive and specific ELISA for the diagnosis of Strongyloides infections**. 6. International Congress on Tropical Medicine and Infectious Diseases, Barcelona, Spain (2019).
30. Pfautsch S, Warnecke JM, Menge B, Klemens O, Klemens JM, Saschenbrecker S, Steinhagen K. **Sensitive and specific ELISA for the diagnosis of Strongyloides infections**. 29. European Congress of Clinical Microbiology and Infectious Diseases, Amsterdam, Netherlands (2019).
31. Sendscheid O, Meyer W, Scheper T. **Laboratory diagnostics of autoantibodies in autoimmune myopathies**. 71. Annual Scientific Meeting of the American Association for Clinical Chemistry & Clinical Lab Expo, Anaheim, USA (2019).
32. Shelly S, Kryzer TJ, Lennon VA, Komorowski L, Miske R, Stöcker W, Anderson MD, Hinson SR, Pittock SJ, McKeon A. **Neurochondrin neurological autoimmunity**. 14. Dresden Symposium on Autoantibodies, Dresden, Germany (2019).
33. Steinhagen K, Muigg N, Warnecke JM, Sendscheid O, Schlumberger W. **Testing anti-Zika virus NS1 IgA additionally to IgM increases sensitivity in acutely infected patients from region endemic for flaviviruses**. 35. Clinical Virology Symposium of the American Society for Microbiology, Savannah, USA (2019).
34. Steinhagen K, Muigg N, Warnecke JM, Sendscheid O, Schlumberger W. **Testing anti-Zika virus NS1 IgA additionally to IgM increases sensitivity in acutely infected patients from region endemic for flaviviruses**. Annual Meeting of the Association of Public Health Laboratories, St. Louis, USA (2019).

35. Steinhagen K, Muigg N, Warnecke JM, Schlumberger W. **Testing for anti-Zika virus NS1 IgA additionally to IgM increases sensitivity in acutely infected patients from region endemic for flaviviruses**. 29. European Congress of Clinical Microbiology and Infectious Diseases, Amsterdam, Netherlands (2019).
36. Steinhagen K, Muigg N, Warnecke JM, Sendscheid O, Schlumberger W. **Testing anti-Zika virus NS1 IgA additionally to IgM increases sensitivity in acutely infected patients from region endemic for flaviviruses**. 71. Annual Scientific Meeting of the American Association for Clinical Chemistry & Clinical Lab Expo, Anaheim, USA (2019).
37. Stiba K, Borchardt-Lohölter V, Moreira-Soto A, Sener AG, Kaya S, Gómez-Guzmán E, Figueroa-Hernández L, Ziolkowska K, Zakaszewska K, Buska K, Janz J, Ott A, Warnecke JM, Scheper T, Meyer W. **Seroprevalence of ten ToRCH infectious pathogens in women residing in Europe and Latin America**. 22. Annual Meeting of the European Society for Clinical Virology, Copenhagen, Denmark (2019).
38. Teegen B, Meyer W, Sendscheid O, Kramp SL, Fraune J, Scheper T, Schlumberger W, Stöcker W, Rentzsch K. **Co-occurrence of autoantibodies to DFS70 and autoantibodies associated with rheumatic diseases**. 71. Annual Scientific Meeting of the American Association for Clinical Chemistry & Clinical Lab Expo, Anaheim, USA (2019).
39. Muigg N, Klemens JM, Stiba K, Steinhagen K, Schlumberger W. **New diagnostic markers for differentiation of acute and convalescent human cytomegalovirus infections**. 7. Meeting of the European Society for Virology, European Congress of Virology, Rotterdam, Netherlands (2019).
40. Zeng Z, Miske R, Scharf M, Denno Y, Probst C, Stöcker W, Komorowski L. **Identification of nine unknown nuclear antigens as autoantibody targets in systemic autoimmune diseases**. 14. Dresden Symposium on Autoantibodies, Dresden, Germany (2019).
41. Zeng Z, Miske R, Scharf M, Denno Y, Sendscheid O, Probst C, Stoecker W, Komorowski L. **UFO-ANA: Cryptic antinuclear autoantibody target antigens revealed**. 32. Annual Scientific Meeting of the Association of Medical Laboratory Immunologists, Cleveland, USA (2019).

## Lectures

1. Arendt P. **Fecal calprotectin for diagnosis and management of IBD**. MedLab Congress, Dubai, United Arab Emirates (2019).
2. Arendt P. **ATN biomarkers in body fluids - A paradigm shift in the definition of Alzheimer's**. 13th International Congress of the Asian Society Against Dementia and 6th Singapore International Neuro-Cognitive Symposium, Singapore (2019).
3. Brock J. **Determination of autoantibodies in diabetes mellitus type 1**. MedLab Congress, Dubai, United Arab Emirates (2019).
4. Brock J. **Mit Erkrankungen der Niere assoziierte Autoantikörper**. Weltnierentag, Greifswald, Germany (2019).
5. Cavalar M. **PCR-based multiplex detection of most important dermatophytes**. A 3-a Conferință a Asociației de Imuno-Dermatologie, Bukarest, Rumänien (2019).
6. El Youssoufi Z. **Update on allergy diagnostics: The importance of defined partial allergen diagnostics (DPA-Dx)**. Immunology Department, Military Hospital, Algiers, Algeria (2019).
7. Ens K. **Recognition of ANA patterns**. The Korean Society for Laboratory Medicine (KSLM) 2019 Spring Symposium, Daegu, Korea (2019).
8. Fechner K. **Microscopy workshop on emerging viruses & microscopy workshop on ANA diagnostic (ICAP)**, Fortbildung der Medizinischen Universität Innsbruck „Neue Trends in der medizinischen Diagnostik“Wien, Austria (2019).
9. Fechner K. **ANCA diagnostics – An update**. 14. Dresden Symposium on Autoantibodies,

Dresden, Germany (2019).

10. Gospos A. **Diagnostics in autoimmune kidney diseases**. 13. Conference of the Autoantibody Network, Meadowvale, ON, Canada (2019).
11. Gospos A. **The increasing test list for neuronal autoantibodies**. 13. Conference of the Autoantibody Network, Meadowvale, ON, Canada (2019).
12. Grypiotis P. **PR3 and PLA2R using the chemiluminescence technique**. 14. Dresden Symposium on Autoantibodies, Dresden, Germany (2019).
13. Harder M. **Sichere Identifizierung von Pilzspezies mit neuem DNA-Microarray Test in der Praxis**. DERM Fachtagung, Frankenthal, Germany (2019).
14. Harder M. **Molekulare mykologische Diagnostik in der dermatologischen Praxis**. Interaktiver Mittwochs-Workshop (Praxis Prof. Helmbold), Heidelberg, Germany (2019).
15. Jäger D. **Development of autoantibody test systems against neural proteins**. 13. Göttingen Meeting of the German Neuroscience Society, Göttingen, Germany (2019).
16. Jäger D. **Cell-based assays (CBA): Modern technology for diagnostic services**. Spring School of Immunology, Kolberg, Poland (2019).
17. Jäger D. **Autoimmune neurological disorders – Biomarkers and diagnostic tools**. 6. International Conference “Advances in Clinical Neuroimmunology”, Poznan, Poland (2019).
18. Krauth J, Gerlach S, Marzahl C, Voigt J, Handels H. **Improving semantic segmentation with synthetic image pairs of GANs**. Workshop “Bildverarbeitung für die Medizin”, Lübeck, Germany (2019).
19. Langenstroth-Röwer D. **Reliable high multiplex testing for sexually transmitted pathogens**. MedLab Congress, Dubai, United Arab Emirates (2019).
20. Langenstroth-Röwer D. **New cutting-edge diagnostics for detection and identification of fungi infecting skin, hair or nails**. MedLab Congress, Dubai, United Arab Emirates (2019).
21. Mende M. **Optimized diagnostic strategies for ANA diagnostics – ICAP and beyond**. Panhellenic Multidiscipline Congress of Autoimmune Diseases, Rheumatology and Clinical Immunology, Pelion, Griechenland (2019).
22. Mende M. **Myositis – Comprehensive multiplex analysis and innovative markers**. Panhellenic Multidiscipline Congress of Autoimmune Diseases, Rheumatology and Clinical Immunology, Pelion, Griechenland (2019).
23. Mende M. **Autoimmune neurological disorders – Biomarkers and diagnostic tools**. Panhellenic Multidiscipline Congress of Autoimmune Diseases, Rheumatology and Clinical Immunology, Pelion, Griechenland (2019).
24. Mende M. **Fallstricke in der serologischen Diagnostik von SLE**. Seminar am Stuttgarter Klinikum, Stuttgart, Germany (2019).
25. Miske R. **Autoimmune neurology – From antigen discovery to product development**. 14. Dresden Symposium on Autoantibodies, Dresden, Germany (2019).
26. Steinhagen K. **Novel screening ELISA for sensitive detection of Mayaro virus-infected patients**. 29. European Congress of Clinical Microbiology and Infectious Diseases, Amsterdam, Netherlands (2019).
27. Ommen G. **Uromodulin – A useful biomarker for renal tubular function**. IX Congresso Nacional de Patologia Clinica, Lissabon, Portugal (2019).
28. Rosenstock P. **Quality control in laboratory medicine – Challenges in internal and external QC**. Seminář Infekční Serologie Erudovaných Laboratoří, Tabor, Czech Republic (2019).
29. Rosenstock P. **Chlamydia serology – Challenges and solutions**. Seminář Infekční Serologie Erudovaných Laboratoří, Tabor, Czech Republic (2019).

30. Seebeck F. **Significance of ANCA testing in the diagnosis of different inflammatory diseases**. INOCHEM Autoimmunity Workshop at Centro Médico Dalinde, México City, México (2019).
31. Seebeck F. **Significance of ANCA testing in the diagnosis of different inflammatory diseases**. Autoimmunity Workshop at the Unidad de Patología Clínica, Guadalajara, México (2019).
32. Seebeck F. **Insights into the QC of an IVD-manufacturer**. Sistemas Analíticos Workshop on quality control in the autoantibody detection, Lima, Peru (2019).
33. Seebeck F. **Opportunities and limitations of EQA**. Sistemas Analíticos Workshop on quality control in the autoantibody detection, Lima, Peru (2019).
34. Seebeck F. **ANCA testing in autoimmune diagnostics**. Sistemas Analíticos Workshop on quality control in the autoantibody detection, Lima, Peru (2019).
35. Sendscheid O. **Diagnostic advances in membranous nephropathy**. 14. Dresden Symposium on Autoantibodies, Dresden, Germany (2019).
36. Stanisak AK. **Automation in autoantibody testing**. 13. Conference of the Autoantibody Network. Meadowvale, Ontario, Canada (2019)
37. Stiba K. **Reliable serological diagnosis of WNV infections: helping to combat WNF epidemics**. WHO WNV Symposium Diagnosis and Surveillance of West Nile virus Infections in the "One Health" context, Zagreb, Kroatien (2019).
38. Wetzel S. **Precise diagnosis of allergies**. International Conference on Allergology and Diagnostics, Riga, Lettland (2019).
39. Wetzel S. **Diagnostische Lücken schließen: Molekulare Allergologie in der täglichen Praxis**. Qualitätszirkel, Schwerin, Germany (2019).
40. Wilcke A. **Speziesidentifizierung von Dermatomykose-Erregern mittels DNA-Microarray**. DVTA-Fortbildung, 11. Dortmunder Mikrobiologie-Tag, Dortmund, Germany (2019).
41. Zeng Z. **Identification of nine unknown nuclear antigens as autoantibody targets in systemic autoimmune diseases**. 14. Dresden Symposium on Autoantibodies, Dresden, Germany (2019).
42. Ens K. **Desafíos para la automatización en la implementación de ICAP**. SIMPOSIO SOBRE AUTOINMUNIDAD "Avances en la práctica de laboratorio y clínica, en la adopción de ICAP en Chile". Santiago, Chile (2019)
43. Mende M. **Optimized test algorithms for the serological diagnostic of autoimmune diseases - ICAP and beyond**. NIP, Windhoek, South Africa (2019)
44. Mende M. **Optimized test algorithms for the serological diagnostic of autoimmune diseases - ICAP and beyond**. Alphaslab, Oshakati, Namibia (2019)
45. Mende M. **The role of auto-antibodies in the prediction, diagnosis and care of patients with auto-immune diseases**. Ampath, Pretoria, South Africa (2019)
46. Mende M. **Optimized diagnostic strategies, consensus guidelines and recommendations for serological ANA ANCA and APS diagnostics**. Lancet, Johannesburg, South Africa (2019)
47. Mende M. **Myositis comprehensive multiplex analysis and innovative markers**. Tygerberg, Capetown, South Africa (2019)
48. Mende M. **Importance of IFA and challenges of ICAP reporting**. Pathcare, Capetown, South Africa (2019)
49. Fechner K. **ANCA diagnostics – an update**. 14. Dresden Symposium on Autoantibodies, Dresden, Germany (2019)
50. Fechner K. **Autoimmune neurological diseases – biomarkers and diagnostic tools**. XIX Congreso Internacional de Bacteriología, CNB, Bogota, Colombia (2019)

51. Fechner K. **IFA: Multiplexing and automation**. XIX Congreso Internacional de Bacteriología, CNB, Bogota, Colombia (2019)
52. Fechner K. **IFA: Multiplexing and automation**. XLIX Congreso Nacional Mexicano de Patología Clínica, Veracruz, Mexico (2019)

## Published Patent Applications

1. Braasch J, Ostermann S, Mackiewicz M. **Antigennachweis von Trichinella**. European (1), European (2), US (1) and US (2) patent application EP3502685 (filed 2017), EP3502686 (filed 2018), US2019/0187132 (filed 2019) and US-2020-0232976-A1 (filed 2020).
2. Gruhne J, Seismann H, Weimann A. **Method for detecting basophil activation**. European (1), European (2), Chinese, German and US patent application EP3441763 (filed 2017), EP3441765 (filed 2018), CN109387636A (filed 2018), DE10 2018 006 212 (filed 2018) and US2019/0049461 (filed 2018).
3. Kaffka C, Rateike M, Stöcker W. **Inkubationsvorrichtung sowie System mit Inkubationsvorrichtung und Wipptisch**. European and International patent application EP3459636 (filed 2017) and WO2019/057900 (filed 2018).
4. Herbst V, Hoffmann K. **An improved method for diagnosing a fungal infection**. European (1), European (2) and US patent application EP3495819 (filed 2017), EP3495820 (filed 2018) and US2019/0178887 (filed 2018).
5. Komorowski L, Miske R, Venkataraman I, Stöcker W, Probst C, Scharf M, Denno Y, Kade S. **Diagnosis of a neuroautoimmune disease**. Chinese patent application CN109142740A (filed 2018).
6. Langenhan J, Probst C. **Zellulose-basierter Immunadsorber**. European (1) and European patent application (2) EP3477300 (filed 2017) and EP3477301 (filed 2018).
7. Schulze T, Schröder S, Allerheiligen-Stolzmann S, Buschtez M. **Apparatus and method for cleaning of pipetting needles**. European, Chinese and US patent application EP3438674 (filed 2017), CN109317441A (filed 2018) and US2019/0041414 (filed 2018).
8. Steinhagen K, Deerberg A, Lattwein E, Radzimski C, Böthfür J. **An immunoassay for the diagnosis of viral infections**. European patent application EP3420357 (filed 2017).
9. Vanmechelen E, De Vos A, Engelborghs S, Peters O, Schipke C. **A novel assay for the diagnosis of a neurological disease**. European and US patent application EP 3452830 (filed 2017) and US2019/0113527 (filed 2017).
10. Stöcker W, Pannhoff H, Krause S. **Verfahren und Vorrichtung zur Segmentierung und Vereinzelnung flächig verteilter Proben mittels Laserschneidens**. European and International patent application EP3567362 (filed 2018) and WO 2019/215107 (filed 2019).

# 2018

## Publications

1. Aldag J, Persson T, Hartmann K. **2'-Fluoro-pyrimidine-modified RNA aptamers specific for lipopolysaccharide binding protein (LBP)**. Int J Mol Sci 19(12):E3883 (2018).
2. Bagnasco M, Saverino D, Pupo F, Marchiano M, Alessio MG, Schlumberger W, Antico A, Pesce G, Bizzaro N. **Estimate of the prevalence of anti-gastric parietal cell autoantibodies in healthy individuals is method dependent**. Am J Clin Pathol 150(4):285-292 (2018).
3. Bahri R, Custovic A, Korosec P, Tsoumani M, Barron M, Wu J, Sayers R, Weimann A, Ruiz-

- Garcia M, Patel N, Robb A, Shamji MH, Fontanella S, Silar M, Mills ENC, Simpson A, Turner PJ, Bulfone-Paus S. **Mast cell activation test in the diagnosis of allergic disease and anaphylaxis.** J Allergy Clin Immunol 142(2):485-496.e16 (2018).
4. Blankestijn MA, Otten HG, Suer W, Weimann A, Knol EF, Knulst AC. **Specific IgE to peanut 2S albumin Ara h 7 has a discriminative ability comparable to Ara h 2 and 6.** Clin Exp Allergy 48(1):65-65 (2018).
  5. Bremer HD, Landegren N, Sjöberg R, Hallgren A, Renneker S, Lattwein E, Leonard D, Eloranta ML, Rönnblom L, Nordmark G, Nilsson P, Andersson G, Liliehöök I, Lindblad-Toh K, Kämpe O, Hansson-Hamlin H. **ILF2 and ILF3 are autoantigens in canine systemic autoimmune disease.** Sci Rep 8(1):4852 (2018).
  6. Carter JB, Carter S, Saschenbrecker S, Goeckeritz BE. **Recognition and relevance of anti-DFS70 autoantibodies in routine antinuclear autoantibodies testing at a community hospital.** Front Med 5:88 (2018).
  7. De Schaepdryver M, Jeromin A, Gille B, Claeys KG, Herbst V, Brix B, Van Damme P, Poesen K. **Comparison of elevated phosphorylated neurofilament heavy chains in serum and cerebrospinal fluid of patients with amyotrophic lateral sclerosis.** J Neurol Neurosurg Psychiatry 89(4):367-373 (2018).
  8. Eymann C, Wachlin G, Albrecht D, Tiede S, Krummrei U, Jünger M, Hecker M, Daeschlein G. **Exoproteome analysis of human pathogenic dermatophyte species and identification of immunoreactive proteins.** Proteomics Clin Appl 12(6):e1800007 (2018).
  9. Gille B, Dedeene L, Stoops E, Demeyer L, Francois C, Lefever S, De Schaepdryver M, Brix B, Vandenbergh R, Tournoy J, Vanderstichele H, Poesen K. **Automation on an open-access platform of Alzheimer's disease biomarker immunoassays.** SLAS Technol 23(2):188-197(2018).
  10. Gkoutzourelas A, Liaskos C, Mytilinaiou MG, Simopoulou T, Katsiari C, Tsirogianni A, Daoussis D, Scheper T, Meyer W, Bogdanos DP, Sakkas LI. **Anti-Ro60 seropositivity determines anti-Ro52 epitope mapping in patients with systemic sclerosis.** 11. Front Immunol 9:2835 (2018).
  11. Händel N, Mothes T, Petroff D, Baber R, Jurkutat A, Flemming G, Kiess W, Hiemisch A, Körner A, Schlumberger W, THIery J, Wolf J. **Will the real coeliac disease please stand up? Coeliac prevalence in the German LIFE Child Study.** J Peadiatr Gastrenetol Nutr 67(4):494-500 (2018).
  12. Hayen SM, Ehlers AM, den Hartog Jager CF, Garssen J, Knol EF, Knulst EF, Suer W, Willemsen LEM, Otten HG. **2S protein Ara h 7.0201 has unique epitopes compared to other Ara h 7 isoforms and is comparable to 2S proteins Ara h 2 and 6 in basophil degranulation capacity.** Clin Exp Allergy 48(7):890-897 (2018).
  13. Hofrichter M, Dworschak J, Emtenani S, Langenhan J, Weiß F, Komorowski L, Zillikens D, Stöcker W, Probst C, Schmidt E, Goletz S. **Immunoabsorption of desmoglein-3-specific IgG abolishes the blister-inducing capacity of pemphigus vulgaris IgG in neonatal mice.** Front Immunol 9:1935 (2018).
  14. Jarius S, Ruprecht K, Stellmann JP, Huss A, Ayzenberg I, Willing A, Trebst C, Pawlitzki M, Abdelhak A, Grüter T, Leyboldt F, Haas J, Kleiter I, Tumani H, Fechner K, Reindl M, Paul F, Wildemann B. **MOG-IgG in primary and secondary chronic progressive multiple sclerosis: a multicenter study of 200 patients and review of the literature.** J Neuroinflammation 15(1):88 (2018).
  15. Kirsebom BE, Nordengen K, Selnes P, Waterloo K, Torsetnes SB, Gisladdottir B, Brix B, Vanmechelen E, Brathen G, Hessen E, Aarsland D, Fladby T. **Cerebrospinal fluid neurogranin/ $\beta$ -site APP-cleaving enzyme 1 predicts cognitive decline in preclinical Alzheimer's disease.** Alzheimers Dement (NY) 4:617-627 (2018).
  16. Kovacs G, Sipeki N, Suga B, Tornai T, Fechner K, Norman GL, Shums Z, Antal-Szalmas P, Papp M. **Significance of serological markers in the disease course of ulcerative colitis in**

**a prospective clinical cohort of patients.** PLoS One 13(3):e0194166 (2018).

17. Liaskos C, Marou E, Simopoulou T, Gkoutzourelas A, Barmakoudi M, Efthymiou G, Scheper T, Meyer W, Katsiari CG, Bogdanos DP, Sakkas LI. **Multiparametric autoantibody profiling of patients with systemic sclerosis in Greece.** Mediterranean J Rheumatol 29(3):120-126 (2018).
18. Lütt A, Michel K, Krüger D, Volz MS, Nassir M, Schulz E, Poralla L, Tangermann P, Bojarski C, Höltje M, Teegen B, Stöcker W, Schemann M, Siegmund B, Prüss H. **High prevalence and functional effects of serum antineuronal antibodies in patients with gastrointestinal disorders.** Neurogastroenterol Motil 30(6):e13292 (2018).
19. Mantere O, Saarela M, Kieseppä T, Raij T, Mäntylä T, Lindgren M, Rikandi E, Stoecker W, Teegen B, Suvisaari J. **Anti-neuronal antibodies in patients with early psychosis.** Schizophr Res 192:404-407(2018).
20. Neumann K, Cavalari M, Rody A, Friemert L, Beyer DA. **Is surgical plume developing during routine LEEPs contaminated with high-risk HPV? A pilot series of experiments.** Arch Gynecol Obstet 297(2):421-424 (2018).
21. Ohst C, Saschenbrecker S, Stiba K, Steinhagen K, Probst C, Radzmiski C, Lattwein E, Komorowski L, Stöcker W, Schlumberger W. **Reliable serological testing for the diagnosis of emerging infectious diseases.** Adv Exp Med Biol 1062:19-43 (2018).
22. Palmqvist S, Insel PS, Zetterberg H, Blennow K, Brix B, Stomrud E, Alzheimer's Disease Neuroimaging Initiative, Swedish BioFINDER study, Mattsson N, Hansson O. **Accurate risk estimation of  $\beta$ -amyloid positivity to identify prodromal Alzheimer's disease: Cross-validation study of practical algorithms.** Alzheimers Dement: S1552-5260(18)33524-6 (2018).
23. Perez-Riverol A, Fernandes LGR, Musacchio Lasa A, Dos Santos-Pinto JRA, Moitinho Abram D, Izuka Moraes GH, Jabs F, Miehe M, Seismann H, Palma MS, de Lima Zollner R, Spillner E, Brochetto-Braga MR. **Phospholipase A1-based cross-reactivity among venoms of clinically relevant Hymenoptera from neotropical and temperate regions.** Mol Immunol 93:87-93 (2018).
24. Perez-Riverol A, Miehe M, Jabs F, Seisman H, Romani Fernandes LG, de Lima Zollner R, Jakob T, Brochetto Braga MR, Spillner E. **Venoms of neotropical wasps lack cross-reactive carbohydrate determinants enabling reliable protein-based specific IgE determination.** J Allergy Clin Immunol 141(5):1917-1917 (2018).
25. Rietveld A, van den Hoogen LL, Bizzaro N, Blokland SLM, Dähnrich C, Gottenber JE, Houen G, Johannsen N, Mandl T, Meyer A, Nielsen CT, Olsson P, van Roon J, Schlumberger W, van Engelen BGM, Saris CGJ, Pruijn GJM. **Autoantibodies to cytosolic 5'-nucleotidase 1A in primary Sjögren's syndrome and systemic lupus erythematosus.** Front Immunol 9:1200 (2018).
26. Scharf M, Miske R, Kade S, Hahn S, Denno Y, Begemann N, Rochow N, Radzimski C, Brakopp S, Probst C, Teegen B, Stöcker W, Komorowski L. **A spectrum of neural autoantigens, newly identified by histo-immunoprecipitation, mass spectrometry and recombinant cell-based indirect immunofluorescence.** Frontiers Immunol 9:1447 (2018).
27. Scherberich J, Gruber R, Nockher WA, Christensen EI, Schmitt H, Herbst V, Block M, Kaden J, Schlumberger W. **Serum uromodulin – a marker of kidney function and renal parenchymal integrity.** Nephrol Dial Transplant 33(2):284-295 (2018).
28. Strobino B, Steinhagen K, Meyer W, Scheper T, Saschenbrecker S, Schlumberger W, Stöcker W, Gaito A, Fallon BA. **A community study of Borrelia burgdorferi antibodies among individuals with prior Lyme disease in endemic areas.** Healthcare 6(2):69 (2018).
29. Tornai T, Tornai D, Sipeki N, Tornai I, Alsulaimani R, Fechner K, Roggenbuck D, Norman GL, Veres G, Par G, Par A, Szalay F, Lakatos PL, Antal-Szalmas P, Papp M. **Loss of tolerance to gut immunity protein, glycoprotein 2 (GP2) is associated with progressive disease course in primary sclerosing cholangitis.** Sci Rep 8(1):399 (2018).



30. Van Beers JJBC, Hahn M, Fraune J, Mallet K, Krause C, Hormann W, Fechner K, Damoiseaux JGMC. **Performance analysis of automated evaluation of antinuclear antibody indirect immunofluorescent tests in a routine setting.** Auto Immun Highlights 9(1):8 (2018).

## Abstracts & Posters

1. Danckwardt M, Lechner M, Sumpf T, Gerlach G, Morrin M, Rateike M, Stoecker W, Voigt J. **Fully integrated IFA workflow: EUROPattern Microscope Live and EuroLabOffice 4.0.** PerkinElmer Innovation Summit, Boston, USA (2018).
2. Dibbern J, Schmidt L, Goerl M, Schuetze T, Huth B, Scheper T, Meyer W. **EUROTide Anti-Borrelia burgdorferi: A newly developed miniaturized line immunoblot for the serological detection of specific antibodies in Lyme disease.** PerkinElmer Innovation Summit, Boston, USA (2018).
3. Dunphy J, Kramp SL, Johannsen N, Hamann P, Sendscheid O, Daehnrich C, Schlumberger W, McHugh N. **Comparison of a conventional and a nucleosome linker-based anti-dsDNA ELISA.** 70. Annual Scientific Meeting of the American Association for Clinical Chemistry and Clinical Lab Expo, Chicago, USA (2018).
4. Efthymiou G, Liaskos C, Marou E, Dardiotis E, Tsimourtou V, Scheper T, Meyer W, Bogdanos DP, Hadjigeorgiou G, Sakkas LI. **The Epstein barr virus infection in systemic sclerosis.** Annual European Congress of Rheumatology 2018, Amsterdam, Netherlands (2018).
5. Ehlers A, Brix B, van Bokhorst J, Blankestijn M, Rohwer S, Le T, Weimann A, Suer W, Otten H. **Hazelnut and walnut co-allergy frequently occurs in patients with objective symptoms.** Food Allergy and Anaphylaxis Meeting, Copenhagen, Denmark (2018).
6. Ehlers AM, Strauß M, Brix B, Blankestijn MA, Le T, Suer W, Otten HG, Knulst AC. **Oleosins have no additional value in the diagnosis of sesame allergy in adults.** Congress of the European Academy of Allergy and Clinical Immunology, München, Germany (2018).
7. Fechner K, Komorowski L, Teegen B, Niemann S, Sendscheid O, Probst C, Stoecker W. **DNA-bound lactoferrin is the major target for pANCA in ulcerative colitis.** 31. Annual Meeting of the Association of Medical Laboratory Immunologists, Scottsdale, USA (2018).
8. Feirer C. **EUROPath Microscope: Automated whole-slide scanning analysis.** PerkinElmer Innovation Summit, Boston, USA (2018).
9. Feirer C, Rateike M, Huettig A, Stoecker W. **Fully automated surface-inspecting inverted microscope for cell culture analysis.** PerkinElmer Innovation Summit, Boston, USA (2018).
10. Fraune J, Hahn M, Lederer S, Lattwein E, Mielke J, Gerlach S, Sendscheid O, Probst C, Fechner K, Voigt J, Stoecker W. **Computer-aided immunofluorescence microscopy of recombinant cell-based IIFT in neurological diagnostics.** 70. Annual Scientific Meeting of the American Association for Clinical Chemistry and Clinical Lab Expo, Chicago, USA (2018).
11. Fraune J, Hahn M, Lederer S, Lattwein E, Mielke J, Gerlach S, Sendscheid O, Probst C, Fechner K, Voigt J, Stoecker W. **Computer-aided immunofluorescence microscopy of recombinant cell-based IIFT in neurological diagnostics.** 31. Annual Meeting of the Association of Medical Laboratory Immunologists, Scottsdale, USA (2018).
12. Gerlach S, Affeldt K, Pototzki L, Krause C, Jahnke A, Voigt J, Fraune J, Sendscheid O, Fechner K, Stoecker W. **Evaluation of Crithidia luciliae IFT can be reliably automated with EUROPattern.** 70. Annual Scientific Meeting of the American Association for Clinical Chemistry and Clinical Lab Expo, Chicago, USA (2018).
13. Gerlach S, Affeldt K, Pototzki L, Krause C, Jahnke A, Voigt J, Fraune J, Sendscheid O, Fechner K, Stoecker W. **Evaluation of Crithidia luciliae IFT can be reliably automated with EUROPattern.** 31. Annual Meeting of the Association of Medical Laboratory Immunologists, Scottsdale, USA (2018).
14. Gerlach S, Danckwardt M, Marzahl C, Lederer S, Mielke J, Fechner K, Stoecker W, Voigt J. **Deep artificial neural networks for pattern recognition in indirect immunofluorescence**

**microscopy.** PerkinElmer Innovation Summit, Boston, USA (2018).

15. Gkoutzourelas A, Liaskos C, Mytilinaiou MG, Scheper T, Meyer W, Sakkas LI, Bogdanos DP. **Anti-Ro60 seropositivity determines anti-Ro52 epitope mapping outcome in patients with autoimmune rheumatic diseases.** 11. Autoimmunity Congress, Lissabon, Portugal (2018).
16. Gkoutzourelas A, Liaskos C, Papadopoulos V, Mytilianaoui MG, Christina K, Scheper T, Meyer W, Bogdanos DP, Papandreou C, Sakkas LI. **Anti-Ro60 seropositivity determines epitope specificity of anti-Ro52 antibodies in patients with autoimmune rheumatic and malignant diseases.** Annual European Congress of Rheumatology 2018, Amsterdam, Netherlands (2018).
17. Hahn S, Trendelenburg G, Scharf M, Denno Y, Brakopp S, Teegen B, Probst C, Wandinger KP, Buttmann M, Szabados F, von Dahl M, Kuempfel T, Eichhorn P, Gold H, Paul F, Jarius S, Melzer N, Sendscheid O, Stoecker W, Komorowski L. **Identification of the flotillin-1/2 heterocomplex as a target of autoantibodies in multiple sclerosis.** 31. Annual Meeting of the Association of Medical Laboratory Immunologists, Scottsdale, USA (2018).
18. Herbst V, Brix B, Sendscheid O, Block M. **New automated chemiluminescence immunoassays for CSF beta-amyloid determination.** 70. Annual Scientific Meeting of the American Association for Clinical Chemistry and Clinical Lab Expo, Chicago, USA (2018).
19. Herbst V, Brix B, Stoops E, Busse S, Sendscheid O, Vanderstichele H. **A novel ELISA for the quantification of tau phosphorylated at threonine 181 in cerebrospinal fluid.** 70. Annual Scientific Meeting of the American Association for Clinical Chemistry and Clinical Lab Expo, Chicago, USA (2018).
20. Huth B, Schuetze T, Stanisak AK, Stoecker W. **MERGITE! Fully automated washing of slides in indirect immunofluorescence.** PerkinElmer Innovation Summit, Boston, USA (2018).
21. Klemens O, Boethfuer J, Wong SJ, Klemens JM, Binnenkade L, Sendscheid O, Steinhagen K. **Development of Anti-Powassan ELISA for the detection of specific antibodies based on different antigenic substrates.** 34. Clinical Virology Symposium of the America Society for Microbiology. West Palm Beach, USA (2018).
22. Klemens O, Pannwitt C, Hachid A, Klemens JM, Binnenkade L, Sendscheid O, Fraune J, Schlumberger W, Steinhagen K. **Development of a novel NS1-based ELISA for the detection of specific IgG antibodies against West-Nile virus.** 34. Clinical Virology Symposium of the America Society for Microbiology. West Palm Beach, USA (2018).
23. Klemens O, Pannwitt C, Hachid A, Klemens JM, Fraune J, Schlumberger W, Steinhagen K. **Detection of IgG antibodies against West-Nile virus NS1 antigen.** 28. European Congress of Clinical Microbiology and Infectious Diseases, Madrid, Spain (2018).
24. Klemens O, Pannwitt C, Hachid A, Klemens JM, Sendscheid O, Fraune J, Schlumberger W, Steinhagen K. **Development of a novel NS1-based ELISA for the detection of specific IgG antibodies against West-Nile virus.** Annual Meeting of the Association of Public Health Laboratories, Pasadena, USA (2018).
25. Liaskos C, Patrikiou E, Zafiriou, Gkoutzourelas A, Scheper T, Meyer W, Roussaki-Schulze A, Alxiou I, Sakkas LI, Bogdanos DP. **ANA-specific antigen recognition in patients with psoriasis and psoriatic arthritis using multiplex line immunoassay specifically designed for ANA assessment as per ICAP.** 11. Autoimmunity Congress, Lissabon, Portugal (2018).
26. Mende M, Cho E, Shen G, Karayev D, Metzger AL, Morris RI, Kramp SL, Daehnrich C, Sendscheid O, Schlumberger W. **Presence of anti-cN-1A (Mup44, NT5c1A) IgG is specific for Sporadic Inclusion Body Myositis.** 70. Annual Scientific Meeting of the American Association for Clinical Chemistry and Clinical Lab Expo, Chicago, USA (2018).
27. Mende M, Cho E, Shen G, Karayev D, Metzger AL, Morris RI, Kramp SL, Sendscheid O, Daehnrich C, Schlumberger W. **Presence of anti-cN-1A (Mup44, NT5c1A) IgG is specific for Sporadic Inclusion Body Myositis.** 31. Annual Meeting of the Association of Medical

Laboratory Immunologists, Scottsdale, USA (2018).

28. Menge B, Pfautsch S, Klemens O, Streit A, Sendscheid O, Klemens JM, Steinhagen K. **Novel ELISA based on antigens from Strongyloides papillosus instead of Strongyloides ratti exhibits increased serological specificity**. Annual Meeting of the Association of Public Health Laboratories, Pasadena, USA (2018).
29. Menge B, Pfautsch S, Klemens O, Streit A, Sendscheid O, Klemens JM, Steinhagen K. **Novel ELISA based on antigens from Strongyloides papillosus instead of Strongyloides ratti exhibits increased serological specificity**. 70. Annual Scientific Meeting of the American Association for Clinical Chemistry and Clinical Lab Expo, Chicago, USA (2018).
30. Meyer W, Scheper T, Komorowski L, Meinck HM, Sendscheid O, Schlumberger W, Stoecker W. **HEK293-expressed GAD65 complements immunoblot for the comprehensive confirmation of anti-neuronal antibodies**. 70. Annual Scientific Meeting of the American Association for Clinical Chemistry and Clinical Lab Expo, Chicago, USA (2018).
31. Meyer W, Scheper T, Komorowski L, Ott A, Meinck HM, Sendscheid O, Schlumberger W, Stoecker W. **HEK293-expressed GAD65 complements immunoblot for the comprehensive confirmation of anti-neuronal antibodies**. 31. Annual Meeting of the Association of Medical Laboratory Immunologists, Scottsdale, USA (2018).
32. Miron N, Larson C, Axel K, Wilcke A, Steller U, Amirbeagi F. **EUROArray HLA-DQ2/DQ8-h Direct and Olerup SSP for the determination of coeliac disease-associated risk factors HLA-DQ2.2,-DQ2.5 and -DQ8 – a comparative study**. 11. Autoimmunity Congress, Lissabon, Portugal (2018).
33. Miske R, Scharf M, Hahn S, Kade S, Denno Y, Begemann N, Teegen B, Mindorf S, Dettmann I, Fraune J, Probst C, Radzimski C, Brakopp S, Sendscheid O, Stoecker W, Komorowski L. **A combination of histo-immunoprecipitation, mass spectrometry and recombinant cell-based indirect immunofluorescence identifies novel neural autoantigens**. 70. Annual Scientific Meeting of the American Association for Clinical Chemistry and Clinical Lab Expo, Chicago, USA (2018).
34. Miske R, Scharf M, Hahn S, Kade S, Denno Y, Begemann N, Teegen B, Mindorf S, Dettmann I, Fraune J, Probst C, Radzimski C, Brakopp S, Sendscheid O, Stoecker W, Komorowski L. **A combination of histo-immunoprecipitation, mass spectrometry and recombinant cell-based indirect immunofluorescence identifies novel neural autoantigens**. 31. Annual Meeting of the Association of Medical Laboratory Immunologists, Scottsdale, USA (2018).
35. Moraes Soane M, Freitas Henriques D, Abreu Lima J, Caricio Martins L, Wilhelm N, Klemens O, Steinhagen K. **Novel screening ELISA for sensitive detection of Mayaro virus-infected patients**. 7. International Meeting on Emerging Diseases and Surveillance, Wien, Austria (2018).
36. Mytilianiou MG, Gkoutrouelas A, Liaskos C, Efthymiou G, Scheper T, Meyer W, Katsiari C, Bogdanos DP, Sakkas LI. **Is human cytomegalovirus a viral trigger of anti-Ro52 antibodies in patients with systemic sclerosis and systemic lupus erythematosus?** 11. Autoimmunity Congress, Lissabon, Portugal (2018).
37. Patrikiou E, Liaskos C, Zafiriou E, Efthymiou G, Scheper T, Meyer W, Roussaki-Schulze A, Sakkas LI, Bogdanos DP. **Helicobacter pylori antigen specific antibodies in psoriatic arthritis**. Annual European Congress of Rheumatology 2018, Amsterdam, Netherlands (2018).
38. Patrikiou E, Liaskos C, Zafiriou E, Gkoutzourelas A, Simopoulou T, Mavropoulos A, Scheper T, Meyer W, Roussaki-Schulze A, Bogdanos DP, Sakkas LI. **Anti-DFS70 antibodies in patients with psoriasis and psoriatic arthritis**. 11. Autoimmunity Congress, Lissabon, Portugal (2018).
39. Rottmann N, Feirer C, von Drathen A, Eggert-Gospos D, Buschtez M, Rieckhoff N, Kroeger C, Stoecker W. **Revolution in pathology – Efficient automatic workflows by means of EUROPath system**. PerkinElmer Innovation Summit, Boston, USA (2018).
40. Schmidt L, Scheper T, Meyer W, Binnenkade L, Sendscheid O, Warnecke JM. **Recombinant**

### **antigens improve sensitivity and allow species differentiation in echinococcosis**

**diagnostics.** 70. Annual Scientific Meeting of the American Association for Clinical Chemistry and Clinical Lab Expo, Chicago, USA (2018).

41. Steinhagen K, Wilhelm N, Sendscheid O, Schlumberger W. **Testing anti-Zika virus NS1 IgA additionally to IgM increases sensitivity in acutely infected patients from region endemic for flaviviruses.** 70. Annual Scientific Meeting of the American Association for Clinical Chemistry and Clinical Lab Expo, Chicago, USA (2018).
42. Steinhagen K, Wilhelm N, Warnecke JM, Schlumberger W. **Testing anti-Zika virus NS1 IgA additionally to IgM increases sensitivity in acutely infected patients from region endemic for flaviviruses.** 18. International Congress on Infectious Diseases, Buenos Aires, Argentina (2018).
43. Stoecker W, Probst C, Teegen B, Rentzsch K, Borowski K, Schlumberger W, Sendscheid O, Fraune J, Komorowski L. **Multiparameter autoantibody screening in the diagnosis of neurological autoimmune diseases.** 31. Annual Meeting of the Association of Medical Laboratory Immunologists, Scottsdale, USA (2018).
44. Teegen B, Meyer W, Kramp SL, Fraune J, Sendscheid O, Scheper T, Schlumberger W, Stoecker W, Rentzsch K. **Co-occurrence of autoantibodies against DFS70 and autoantibodies associated with rheumatic diseases.** 31. Annual Meeting of the Association of Medical Laboratory Immunologists, Scottsdale, USA (2018).
45. Venkataraman I, Herbst V, Brix B, Stoops E, Vanderstichele H. **Evaluation of certified reference materials for beta-amyloid 1-42 using Euroimmun ELISA and ChLIA.** Alzheimer's Association International Conference, Chicago, USA (2018).
46. Wilhelm N, Klemens JM, Steinhagen K, Binnenkade L, Sendscheid O, Schlumberger W. **New diagnostic markers for differentiation of acute and convalescent human cytomegalovirus infections.** 34. Clinical Virology Symposium of the American Society for Microbiology. West Palm Beach, USA (2018).
47. Wilhelm N, Klemens JM, Steinhagen K, Sendscheid O, Schlumberger W. **New diagnostic markers for differentiation of acute and convalescent human cytomegalovirus infections.** 70. Annual Scientific Meeting of the American Association for Clinical Chemistry and Clinical Lab Expo, Chicago, USA (2018).
48. Zafiriou E, Patrikiou E, Liaskos C, Efthymiou G, Scheper T, Meyer W, Roussaki-Schulze A, Bogdanos DP. **Helicobacter pylori CagA and VacA seropositivity in patients with psoriasis.** 11. Autoimmunity Congress, Lissabon, Portugal (2018).
49. Zeng Z, Miske R, Scharf M, Denno Y, Sendscheid O, Probst C, Stoecker W, Komorowski L. **UFO-ANA: Cryptic antinuclear autoantibody target antigens revealed.** 70. Annual Scientific Meeting of the American Association for Clinical Chemistry and Clinical Lab Expo, Chicago, USA (2018).

## **Lectures**

1. Arendt P. **New developments in beta-amyloid CSF measurements.** 1. Congrès des 7 CoEN, Montpellier, France (2018).
2. Cavalar M. **Career paths outside academia.** 2. International RTG 1743 Symposium, Kiel, Germany (2018).
3. Cavalar M. **Academia or Industry – Pros & Cons.** 2. International RTG 1743 Symposium, Kiel, Germany (2018).
4. Fechner K. **Microscopy workshop on emerging viruses & microscopy workshop on neuronal autoantibodies.** Fortbildung der Medizinischen Universität Innsbruck "Trends in der medizinischen Diagnostik", Wien, Austria (2018).
5. Fechner K. **Aktuelle Empfehlungen für die ANA-Diagnostik – ICAP and beyond.** EUROIMMUN Seminar, München, Germany (2018).

6. Fechner K. **Automation in ANA diagnostics**. Hausen Bernstein Seminar, Bangkok, Thailand (2018).
7. Fechner K. **Developments in ANCA diagnostics**. Hausen Bernstein Seminar, Bangkok, Thailand (2018).
8. Fechner K. **Assay automation and EUROLabOffice software**. Hausen Bernstein Seminar, Bangkok, Thailand (2018).
9. Fechner K. **Autoimmune Neurological Disorders**. Canberra Hospital Lunchtime Seminar, Canberra, Australia (2018).
10. Fechner K. **Serological detection of different autoimmune diseases using transfected cells**. ELS Biosciences/EUROIMMUN User Group Workshop at ISNI, Brisbane, Australia (2018).
11. Fechner K. **How an UFO becomes identified – Development of new diagnostic parameters in autoimmune neurological disorders**. 14. International Congress of Neuroimmunology (ISNI), Brisbane, Australia (2018).
12. Gospos A. **Autoantibody testing for autoimmune liver & gastroenterologic diseases**. 12. Conference of the Autoantibody Network, Niagara Falls, ON, Canada (2018).
13. Gospos A. **New advances in autoantibody testing**. 12. Conference of the Autoantibody Network, Niagara Falls, ON, Canada (2018).
14. Gospos A. **Updates on anti-neuronal antibodies**. 12. Conference of the Autoantibody Network, Niagara Falls, ON, Canada (2018).
15. Jäger D. **Autoimmune neurological disorders – Biomarkers and diagnostic tools**. 7. ANL Congresso Cientifico, Porto, Portugal (2018).
16. Kayser K, Görtler J, Rottmann N. **Cognitive algorithms for tissue-based diagnosis**. 14. European Congress on Digital Pathology, Helsinki, Finland (2018).
17. Lattwein E. **Serological arbovirus diagnostics – Dealing with cross-reactivities**. 2. International Conference on Zika Virus and Aedes related infections. Tallin, Estonia (2018).
18. Lattwein E, Janku M, Bohm K, Lederer S, Fechner K. **Investigation of serological cross-reactivity within the alphavirus genus using IFA biochip mosaics**. 7. International Meeting on Emerging Diseases and Surveillance, Wien, Austria (2018).
19. Mende M. **Optimized diagnostic strategies for ANA diagnostics – ICAP and beyond**. ICAP-Symposium “Maximale antigen target detectie bij auto-immuun-screening”, Utrecht, Netherlands (2018).
20. Pollmann M. **Infektionen mit dem Hepatitis-E-Virus (HEV)**. 10. Mikrobiologie-Tag des DTVA, Dortmund, Germany (2018).
21. Pollmann M. **Novel markers for the serological diagnosis of CMV infections**. 28. European Congress of Clinical Microbiology and Infectious Diseases, Madrid, Spain (2018).
22. Pollmann M. **Die serologische Diagnostik der Lyme-Borreliose**. Fortbildungsveranstaltung für medizinisches Fachpersonal, Städtisches Klinikum Görlitz, Germany (2018).
23. Schlumberger W. **Novel biomarkers in autoimmune kidney diseases**. MedLab Congress, Dubai, United Arab Emirates (2018).
24. Schlumberger W. **Autoimmune markers in neuronal disorders**. MedLab Congress, Dubai, United Arab Emirates (2018).
25. Schlumberger W. **Biomarkers in autoimmune neuronal disorders and in neurodegenerative diseases**. 21. Časomil, Karolinka, Czech Republic (2018).
26. Schlumberger W. **Automation progress over the last years**. 21. Časomil, Karolinka, Czech Republic (2018).
27. Schlumberger W. **CSF biomarkers in Alzheimer’s disease**. EUROIMMUN Seminar, Sao

Paulo, Brazil (2018).

28. Schlumberger W. **Autoimmune markers in neuronal disorders**. EUROIMMUN Seminar, Sao Paulo, Brazil (2018).
29. Sendscheid O. **Development of Anti-Powassan ELISA for the detection of specific antibodies based on different antigenic substrates**. 15. International Conference on Lyme Borreliosis and other Tick-Borne Diseases, Atlanta, USA (2018).
30. Stiba K. **Testing anti-Zika virus NS1 IgA additionally to IgM increases sensitivity in acutely infected patients from regions endemic for flaviviruses**. 2. International Conference on Zika Virus and Aedes related infections, Tallin, Estonia (2018).
31. Stiba K. **1. Advances in parasites diagnostics, 2. Revisiting Mumps, Measles, Rubella and VZV (MMRV) diagnostics, 3. Addressing the beneficial of Zika IgA in ZDC (Arbovirus) infections and cross reactivity**. Workshop Infektionsdiagnostik, Bangkok, Thailand (2018).
32. Stöcker W, Rentzsch K. **In der Praxis: Prävalenz 50 verschiedener Anti-neuraler Autoantikörper**. Neurologiesymposium Autoimmunität und Nervensystem Charité, Berlin, Germany (2018).

## Published Patent Applications

1. Feirer C, Bernitt E, Paul M, Roznowicz R. **Neues Mikroskopie-Verfahren**. International and European patent application WO2018/197193 (filed 2018) and EP3396430 (filed 2017).
2. Harder M, Gräser Y, Kupsch C, Cavalar M. **Assay for the diagnosis of dermatophytosis**. European patent application EP3382032 (filed 2017).
3. Harder M, Gräser Y, Kupsch C, Cavalar M. **Assay for the diagnosis of dermatophytosis**. European, Chinese, Japanese and Singaporean patent application EP3382041 (filed 2018), CN108690881A (filed 2018), 2018-171053 (filed 2018) and 10201802281X (filed 2018).
4. Kaffka C. **Incubation tray**. Chinese, Japanese, Brazilian, Hong Kong and US patent application CN107530704A (filed 2015), JP2018-513787 (filed 2015), BR112017019915-7 (filed 2015), 1242649A (filed 2018) and US-2018-0078941 (filed 2015).
5. Kemsies D, Schröder D, Nevermann S. **Incubation tray**. Singaporean patent application 10201808942Y (filed 2018).
6. Komorowski L, Scharf M, Miske R, Denno Y, Probst C, Dettmann IM, Teegen B, Stöcker W, Melzer N, Wiendl H, Meuth S. **Diagnosis of a novel autoimmune disease**. US patent application US2018/0298072 (filed 2018).
7. Komorowski L, Miske R, Venkataraman I, Stöcker W, Probst C, Scharf M, Denno Y, Kade S. **Diagnosis of a neuroautoimmune disease**. European and German patent application EP3415909 (filed 2018) and 102018004759.9 A1 (filed 2018).
8. Lambeau G, Tomas N, Seitz-Polski B, Stahl RAK. **Methods and kits for monitoring membranous nephropathy**. US patent application US-2018-0356417-A1 (filed 2015).
9. Little M. **Method and assay for diagnosing rapidly progressive glomerulonephritis in a subject**. European patent application EP3283889 (filed 2016).
10. Probst C, Dähnrich C, Komorowski L. **A method for the production of a polypeptide**. European patent application EP3293520 (filed 2016).
11. Scheper T, Meyer W. **Diagnostic immunodetection of autoantibodies to gangliosides**. European patent application EP3318877 (filed 2015).
12. Stöcker W, Komorowski L, Miske R, Denno Y, Scharf M, Probst C. **Diagnosis of a neuroautoimmune disease**. European (1), European (2), Chinese and US patent application EP3392656 (filed 2017), EP3392657 (filed 2018), CN108728526A (filed 2018) and US-2018-0306787 (filed 2018).



13. Suer W, Rohwer S, Brix B, Weimann A, Weimann Y, Klinge M. **An improved assay for the diagnosis of peanut allergy**. International, European, Chinese, Japanese, Brazilian and US patent application WO2018/149927 (filed 2018), EP3364193 (filed 2018), CN108427001A (filed 2017), 2018-132525 (filed 2018), BR102017026619-2 (filed 2017) and US-2018-0231567-A1 (filed 2018).
14. Sumpf TJ, Pannhoff H, Müller M, Morrin M, Hagen-Eggert M. **Verfahren und Mikroskopiesystem zum Aufnehmen eines Bildes**. European patent application EP3418789 (filed 2017).

## 2017

### Publications

1. Alfugham N, Gadoth A, Lennon VA, Komorowski L, Scharf M, Hinson S, McKeon A, Pittock SJ. **ITPR1 autoimmunity: Frequency, neurologic phenotype, and cancer association**. *Neurol Neuroimmunol Neuroinflamm* 5(1):e418 (2017).
2. Beek van N, Dähnrich C, Johannsen N, Lemcke S, Goletz S, Hübner F, Zenzo di G, Dmochowski M, Drenovska K, Geller S, Horn M, Kowalewski C, Medenica L, Murrell DF, Patsatsi A, Uzun S, Vassileva S, Zillikens D, Schlumberger W, Schmidt E. **Prospective studies on the routine use of a novel multivariant enzyme-linked immunosorbent assay for the diagnosis of autoimmune bullous diseases**. *J Am Acad Dermatol* 76(5):889-894 (2017).
3. Berzero G, Hacohen Y, Komorowski L, Scharf M, Dehais C, Leclercq D, Fourchotte V, Buecher B, Honnorat J, Graus F, Delattre JY, Psimaras D. **Paraneoplastic cerebellar degeneration associated with anti-ITPR1 antibodies**. *Neurol Neuroimmunol Neuroinflamm* 4(2):e326 (2017).
4. Chen H, Chen S, Lu J, Wang X, Li J, Li L, Fu J, Scheper T, Meyer W, Peng HY, Liu W. **Multiparametric detection of antibodies against different EBV antigens to predict risk for nasopharyngeal carcinoma in a high-risk population of China**. *Cancer Prev Res (Phila)* 10(9):542-550 (2017).
5. Chen J, Zheng Q, Hammers CM, Ellebrecht CT, Mukherjee EM, Tang HY, Lin C, Yuan H, Pan M, Langenhan J, Komorowski L, Siegel DL, Payne AS, Stanley JR. **Proteomic analysis of pemphigus autoantibodies indicates a larger, more diverse and more dynamic repertoire than determined by B cell genetics**. *Cell Rep* 18(1):237-247 (2017).
6. Dammermann W, Polywka S, Dettmann I, Mindorf S, Komorowski L, Wehmeyer M, Schulze Zur Wiesch J, Stöcker W, Lüth S. **Autoantibodies against „rods and rings“-related IMPDH2 in hepatitis C genotype 1 and DAA therapy in a „real life“ cohort**. *Med Microbiol Immunol* 206(5):379-382 (2017).
7. Edmondson DG, Prabhakaran S, Norris SJ, Ullmann AJ, Piesman J, Dolan M, Probst C, Radzimski C, Stöcker W, Komorowski L. **Enhanced protective immunogenicity of homodimeric *Borrelia burgdorferi* Outer Surface Protein C**. *Clin Vaccine Immunol* 24(1):e00306-16 (2017).
8. Efthymiou G, Dardiotis E, Liaskos C, Marou E, Tsimourtou V, Rigopoulou EI, Scheper T, Daponte A, Meyer W, Sakkas LI, Hadjigeorgiou G, Bogdanos DP. **Immune response against *Helicobacter pylori*-specific antigens differentiates relapsing remitting from secondary progressive multiple sclerosis**. *Sci Rep* 7(1):7929 (2017).
9. Ernst D, Weiberg D, Baerlecken NT, Schlumberger W, Daehnrich C, Schmidt RE, Bengel FM, Derlin T, Witte T. **Anti-MYC-associated zinc finger protein antibodies are associated with inflammatory atherosclerotic lesions on 18F-fluorodeoxyglucose positron emission**



**tomography.** Artherosclerosis 259:12-19 (2017).

10. Ernst D, Widera C, Baerlecken NT, Schlumberger W, Daehnrich C, Schmidt RE, Gabrysch K, Wallentin L, Witte T. **Antibodies against MYC-associated zinc finger protein: an independent marker in acute coronary syndrome?** Front Immunol 8:1595 (2017).
11. Finke C, Prüss H, Heine J, Reuter S, Kopp UA, Wegner F, Then Bergh F, Koch S, Jansen O, Münte T, Deuschl G, Ruprecht K, Stöcker W, Wandinger KP, Paul F, Bartsch T. **Evaluation of cognitive deficits and structural hippocampal damage in encephalitis with leucine-rich glioma-inactivated 1 antibodies.** JAMA Neurol 74(1):50-59 (2017).
12. Flechsig A, Rose T, Barkhudarova F, Strauss R, Klotsche J, Dähnrich C, Schlumberger W, Enghard P, Burmester GR, Hiepe F, Biesen R. **What is the clinical significance of anti-Sm antibodies in systemic lupus erythematosus? A comparison with anti-dsDNA antibodies and C3.** Clin Exp Rheumatol 35(4):598-606 (2017).
13. Florey J, Viall A, Streu S, DiMuro V, Riddle A, Kirk J, Perazotti L, Affeldt K, Wagner R, Vaden S, Harris T, Allenspach K. **Use of a granulocyte immunofluorescence assay designed for humans for detection of antineutrophil cytoplasmic antibodies in dogs with chronic enteropathies.** J Vet Intern Med 31(4):1062-1066 (2017).
14. Frey CF, Marreros N, Renneker S, Schmidt L, Sager H, Hentrich B, Milesi S, Gottstein B. **Dogs as victims of their own worms: Serodiagnosis of canine alveolar echinococcosis.** Parasit Vectors 10(1):422 (2017).
15. Hahn S, Trendelenburg G, Scharf M, Denno Y, Brakopp S, Teegen B, Probst C, Wandinger KP, Buttmann M, Haarmann A, Szabados F, Vom Dahl M, Kümpfel T, Eichhorn P, Gold H, Paul F, Jarius S, Melzer N, Stöcker W, Komorowski L. **Identification of the flotillin-1/2 heterocomplex as a target of autoantibodies in bona fide multiple sclerosis.** J Neuroinflammation 14(1):123 (2017).
16. Hölthje M, Mertens R, Schou MB, Saether SG, Kochova E, Jarius S, Prüss H, Komorowski L, Probst C, Paul F, Bellmann-Strobl J, Gitler D, Benfenati F, Piepgras J, Ahnert-Hilger G, Ruprecht K. **Synapsin-antibodies in psychiatric and neurological disorders: prevalence and clinical findings.** Brain Behav Immun 66:125-34 (2017).
17. Honorat JA, Komorowski L, Josephs KA, Fechner K, St Louis EK, Hinson SR, Lederer S, Kumar N, Gadoth A, Lennon VA, Pittock SJ, McKeon A. **IgLON5 antibody: neurological accompaniments and outcomes in 20 patients.** Neurol Neuroimmunol Neuroinflamm 4(5):e385 (2017).
18. Hormann W, Hahn M, Gerlach S, Hochstrate N, Affeldt K, Giesen J, Fechner K, Damoiseaux J. **Performance analysis of automated evaluation of Crithidia lucilliae-based indirect immunofluorescence tests in a routine setting – strengths and weaknesses.** Clin Chem Lab Med 56(1):86-93 (2017).
19. Hoxha E, Beck LH Jr, Wiech T, Tomas NM, Probst C, Mindorf S, Meyer-Schwesinger C, Zahner G, Stahl PR, Schöpfer R, Panzer U, Harendza S, Helmchen U, Salant DJ, Stahl RA. **An indirect immunofluorescence method facilitates detection of thrombospondin type 1 domain-containing 7A-specific antibodies in membranous nephropathy.** J Am Soc Nephrol 28(2):520-531 (2017).
20. Jendrek ST, Gotthardt D, Nitzsche T, Widmann L, Korf T, Michaels MA, Weiss KH, Liaskou E, Versterhus M, Karlsen TH, Mindorf S, Schemmer P, Bär F, Teegen B, Schröder T, Ehlers M, Hammers CM, Komorowski L, Lehnert H, Fellermann K, Derer S, Hov JR, Sina C. **Anti-GP2 IgA autoantibodies are associated with poor survival and cholangiocarcinoma in primary sclerosing cholangitis.** Gut 66(1):137-144 (2017).
21. Komorowski L, Stoecker W, Fraune J, Probst C. **Letter to the editor re: "Pitfalls in the detection of N-methyl-d-aspartate-receptor (NMDA-R) antibodies" accurate evaluation of anti-NMDA-R cell-based assay avoids reporting of false positive results.** Clin Biochem 50(7-8):458-459 (2017).

22. Krüger S, Fuhrmann T, van Beek N, Komorowski L, Fechner K, Zillikens D, Stöcker W, Schmidt E, Rentsch K. **335 Multicenter prospective study on multivariant diagnostics of autoimmune bullous dermatoses using the Biochip technology.** J Invest Dermatol 137(10):S250 (2017).
23. Lang B, Makuch M, Moloney T, Dettman I, Mindorf S, Probst C, Stoecker W, Buckley C, Newton C, Leite M, Maddison P, Komorowski L, Adcock J, Vincent A, Waters P, Irani S. **Intracellular and non-neuronal targets of voltage-gated potassium channel complex antibodies.** J Neurol Neurosurg Psychiatry 88(4):353-361 (2017).
24. Liaskos C, Marou E, Simopoulou T, Barmakoudi M, Efthymiou G, Scheper T, Meyer W, Bogdanos DP, Sakkas LI. **Disease-related autoantibody profile in patients with systemic sclerosis.** Autoimmunity 50(7):414-421 (2017).
25. Ludwig RJ, Vanhoorelbeke K, Leyboldt F, Kaya Z, Bieber K, McLachlan SM, Komorowski L, Luo J, Cabral-Marques O, Hammers CM, Lindstrom JM, Lamprecht P, Fischer A, Riemekasten G, Tersteeg C, Sondermann P, Rapoport B, Wandinger KP, Probst C, El Beidag A, Schmidt E, Verkman A, Manz RA, Nimmerjahn F. **Mechanisms of autoantibody-induced pathology.** Front Immunol 8:603 (2017).
26. Marou E, Liaskos C, Efthymiou G, Dardiotis E, Daponte A, Scheper T, Meyer W, Hadjigeorgiou G, Bogdanos DP, Sakkas LI. **Increased immunoreactivity against human cytomegalovirus UL83 in systemic sclerosis.** Clin Exp Rheumatol 35 Suppl 106(4):31-34 (2017).
27. Marou E, Liaskos C, Simopoulou T, Efthymiou G, Dardiotis E, Katsiari C, Scheper T, Meyer W, Hadjigeorgiou G, Bogdanos DP, Sakkas LI. **Human cytomegalovirus (HCMV) UL44 and UL57 specific antibody responses in anti-HCMV-positive patients with systemic sclerosis.** Clin Rheumatol 36(4):863-869 (2017).
28. Mindorf S, Dettmann I, Krueger S, Fuhrmann T, Rentzsch K, Karl I, Probst C, Komorowski L, Fechner K, van Beek N, Lemcke S, Sardy M, Bangert C, Benoit S, Hashimoto T, Zillikens D, Pas HH, Jonkmann MF, Stoecker W, Schmidt E; International Autoimmune Bullous Diseases Study Group. **Routine detection of serum antidesmocollin autoantibodies is only useful in patients with atypical pemphigus.** Exp Dermatol 26(12):1267-1270 (2017).
29. Munyua P, Corman VM, Bitek A, Osoro E, Meyer B, Müller MA; Lattwein E, Thumbi SM, Murithi R, Widdowson MA, Drosten C, Njenga MK. **No serological evidence of Middle East Respiratory Syndrome Coronavirus infection among camel farmers exposed to highly seropositive camel herds: a household linked study, Kenya, 2013.** Am J Trop Med Hyg 96(6):1318-1324 (2017).
30. Neumann K, Cavalar M, Rody A, Beyer DA. **HPV-Infektionen. Diagnostik und Impfung.** Tumor Diag u Ther 38:1-5 (2017).
31. Popkirov S, Ayzenberg I, Hahn S, Bauer J, Denno Y, Rieckhoff N, Radzimski C, Hans VH, Berg S, Roghmann F, Noldus J, Bien CG, Skodda S, Wellmer J, Stöcker W, Krogias C, Gold R, Schlegel U, Probst C, Komorowski L, Miske R, Kleiter I. **Rho-associated protein kinase 2 (ROCK2): a new target of autoimmunity in paraneoplastic encephalitis.** Acta Neuropathol Commun 5(1):40 (2017).
32. Rommel FR, Miske R, Stöcker W, Arneth B, Neubauer BA, Hahn A. **Chorea minor associated with anti-neurochondrin autoantibodies.** Neuropediatrics 48(6):482-483 (2017).
33. Saether SG, Schou M, Stoecker W, Teegen B, Borowski K, Vaaler A, Kondziella D, Reitan SK. **Onconeural antibodies in acute psychiatric inpatient care.** J Neuropsychiatry Clin Neurosci 29(1):74-76 (2017).
34. Saqip M, Sieberg A, Hussain MH, Mansoor MK, Zohaib A, Lattwein E, Müller MA, Drosten C, Corman VM. **Serological evidence for MERS-CoV infections in dromedary camels, Punjab, Pakistan, 2012-2015.** Emerg Infect Dis 23(3):550-551 (2017).
35. Satanovskij R, Bader A, Block M, Herbst V, Schlumberger W, Haack T, Nockher WA, Heemann U, Renders L, Schmaderer C, Angermann S, Wen M, Meitinger T, Scherberich J, Steubl D. **A new missense mutation in UMOD gene leads to severely reduced serum**

**uromodulin concentrations – a tool for the diagnosis of uromodulin-associated kidney disease.** Clin Biochem 50(3):155-158 (2017).

36. Steubl D, Block M, Herbst V, Schlumberger W, Nockher A, Angermann S, Schmaderer C, Heemann U, Renders L, Scherberich J. **Serum uromodulin predicts graft failure in renal transplant recipients.** Biomarkers 22(2):171-177 (2017).
37. Vanderstichele H, Demeyer L, Janelidze S, Coart E, Stoops E, Mauroo K, Herbst V, Francois C, Hansson O. **Recommendations for cerebrospinal fluid collection for the analysis by ELISA of neurogranin trunc P75,  $\alpha$ -synuclein, and total tau in combination with A $\beta$ (1-42)/A $\beta$ (1-40).** Alzheimers Res Ther 9(1):40 (2017).
38. Wang J, Cui Z, Lu J, Probst C, Zhang YM, Wang X, Qu Z, Wang F, Meng LQ, Cheng XY, Liu G, Debiec H, Ronco P, Zhao MH. **Circulating antibodies against thrombospondin type-1 domain-containing 7A in Chinese patients with idiopathic membranous nephropathy.** Clin J Am Soc Nephrol 12(10):1642-1651 (2017).
39. Willemse E, van Uffelen K, Brix B, Engelborghs S, Vanderstichele H, Teunissen C. **How to handle adsorption of cerebrospinal fluid amyloid- $\beta$  (1-42) in laboratory practice? Identifying problematic handlings and resolving the issue by use of the A $\beta$ 42/A $\beta$ 40 ratio.** Alzheimers Dement 13(8):885-892 (2017).

## Abstracts & Posters

1. Chunder R, Linington C, Graus F, Sabater L, Stöcker W, Komorowski L, Probst C. **Recombinant cell-based indirect immunofluorescence assay for the detection of IgM anti-HNK-1 paraproteins in polyneuropathy.** American Academy of Neurology 69. Annual Meeting, Boston, USA (2017).
2. Damoiseaux J, Mallet K, van Beers J, Hahn M, Krause C, Hormann W, Fechner K. **Performance analysis of automated evaluation of anti-nuclear antibody indirect immunofluorescence tests in a routine setting.** 13. Dresden Symposium on Autoantibodies, Dresden, Germany (2017).
3. Efthymiou G, Liaskos C, marou E, Simopoulou T, Scheper T, Meyer W, Bogdanos DP, Sakkas LI. **Antibody responses against human cytomegalovirus antigens in patients with systemic sclerosis.** 13. Dresden Symposium on Autoantibodies, Dresden, Germany (2017).
4. Gkoutzourelas A, Liaskos C, Scheper T, Meyer W, Bogdanos DP, Sakkas LI. **Epitope mapping of anti-Ro52 antibody responses in patients with autoimmune rheumatic diseases reveals differential epitope mapping.** 13. Dresden Symposium on Autoantibodies, Dresden, Germany (2017).
5. Hahn S, Trendelenburg G, Scharf M, Denno Y, Brakopp S, Teegen B, Probst C, Wandinger KP, Buttman M, Szabados F, Dahl vom M, Kümpfel T, Eichhorn P, Gold HJ, Jarius S, Melzer N, Stöcker W, Komorowski L. **Identification of the flotillin-1/2 heterocomplex as a target of autoantibodies in multiple sclerosis.** American Academy of Neurology 69. Annual Meeting, Boston, USA (2017).
6. Herbst V, Brix B, Block M. **New automated chemiluminescence immunoassay for CSF beta-amyloid determination.** 11. International Conference on Alzheimer's and Parkinson's Disease, Wien, Austria (2017).
7. Herbst V, Brix B, Vanderstichele HM. **A novel colorimetric ELISA for quantification of tau, phosphorylated at threonine 181, in cerebrospinal fluid.** Alzheimer's Association International Conference 2017, London, England (2017).
8. Kade S, Strippel C, Teegen B, Miske R, Scharf M, Denno Y, Probst C, Radzinski C, Stöcker W, Melzer N, Komorowski L. **Identification of the CNTN1/CASPR complex as the target of autoantibodies in a patient with chronic inflammatory demyelinating polyneuropathy.** American Academy of Neurology 69. Annual Meeting, Boston, USA (2017).
9. Kosanke S, Harder M, Cavalier M, Brasch J, Nenoff P, Uhrlaß S, Gräser Y. **Performance test**

**of the DNA microarray “EUROArray Dermatomycosis”**. Association for Molecular Pathology 2017 Annual Meeting, Salt Lake City, USA (2017).

10. Krüger S, Fuhmann T, van Beek N, Probst C, Komorowski L, Lemcke S, Dähnrich C, Schlumberger W, Zillikens D, Stöcker W, Schmidt E, Rentzsch K, International Autoimmune Diseases Study Group. **Multicenter prospective study on multivariant diagnosis of autoimmune bullous dermatoses using the Biochip technology**. Scientific Conference of the International Pemphigus & Pemphigoid Foundation, Lübeck, Germany (2017).
11. Oesterreich B, Klemens O, Fraune J, Streit A, Warnecke JM, Steinhagen K. **Novel ELISA using antigens from *Strongyloides papillosus* instead of *S. ratti* exhibit increased serological specificity**. 27. ECCMID, Wien, Austria (2017).
12. Rohwer S., Denno Y, Weimann A, Stoecker W, Suer W. **Identification of a major allergen from *Macadamia nut***. International Symposium on Molecular Allergology 2017, Luxemburg (2017).
13. Rudolph S, Kouba M, Sack U, Stöcker W, Conrad K. **Anti-DDPX antibody associated encephalitis in a patient with SLE and COVID**. 13. Dresden Symposium on Autoantibodies, Dresden, Germany (2017).
14. Scharf M, Miske R, Kade S, Hahn S, Begemann N, Denno Y, Probst C, Teegen B, Borowski K, Stöcker W, Komorowski L. **The role of mass spectrometry in the identification of autoantibodies as targets in neurological autoimmune diseases**. 50. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie, Kiel, Germany (2017).
15. Scherberich J, Delgado GE, Kleber M, Scharnagl H, Krämer BK, Herbst V, Block M, Christensen EI, Nockher W, Schlumberger W, März W. **Serum uromodulin: an early diagnostic and prognostic tissue-specific marker of kidney injury**. Symposium Biomarkers of the Cardiorenal axis, DACH-Gesellschaft, Mannheim, Germany (2017).
16. Steinhagen K, Lattwein E, Fraune J, Schlumberger W, Warnecke J. **Absence of specific IgM in week six post symptom onset in a patient with confirmed Zika virus infection**. 1. International Conference on Zika Virus, Washington, USA (2017).
17. Steinhagen K, Sendscheid O, Klemens JM, Fraune J, Schlumberger W. **Combined detection of specific IgG and IgM antibodies for a reliable screening for West-Nile virus infections**. 33. Clinical Virology Symposium of the American Society for Microbiology, Savannah, USA (2017).
18. Vanderstichele H, Chassaing E, Demeyer L, Pannee J, Herbst V, Bodnar-Wachtel M, Stoops E, Hansson O, Blennow K. **Differences in analytical selectivity of  $\beta$ -amyloid (1-42) immunoassays explains discordant results in study comparisons**. Alzheimer's Association International Conference 2017, London, England (2017).
19. Waters P, Komorowski L, Brilot F, Pittock SJ, Probst C, Probst M, Reindl M. **Multicentre MOG antibody detection**. 13. Dresden Symposium on Autoantibodies, Dresden, Germany (2017).
20. Wilhelm N, Klemens JM, Steinhagen K, Schlumberger W. **New diagnostic markers for differentiation of acute and convalescent human cytomegalovirus infections**. 27. ECCMID, Wien, Austria (2017).

## Lectures

1. Brix B, Vanderstichele HM, Janelidze S, Demeyer L, Coart E, Stoops E, Hansson O. **The CSF A $\beta$ (1-42)/A $\beta$ (1-40) ratio improves the clinical utility of A $\beta$ (1-42) by its impact at analytical and clinical level**. Alzheimer's Association International Conference 2017, London, England (2017).
2. Fechner K. **Efficient IFA workflows from sample identification to final report of autoantibody analyses**. 13. Dresden Symposium on Autoantibodies, Dresden, Germany (2017).

3. Fechner K. **EUROPattern: Automatische Auswertung der ANA (gemäß ICAP) und neurologischer cell-based assays**. Fortbildung der Medizinischen Universität Innsbruck "Trends in der medizinischen Diagnostik", Wien, Austria (2017).
4. Fechner K. **Autoantibody detection by indirect immunofluorescence in neurological autoimmune diseases**. 2. International Congress of Neurology and Meeting of Taiwan Neurological Society, Taipei, Taiwan (2017).
5. Gille B, Schaeveverbeke J, Vanderstichele HM, Adamczuk K, Demeyer L, Francois C, Herbst V, Brix B, Tournoy J, Vandenberghe R, Poesen K. **Synaptic markers in liquor inversely correlate with grey matter volume in cognitively healthy individuals**. Alzheimer's Association International Conference 2017, London, England (2017).
6. Gospos A. **Autoimmune nephrology diagnostic parameters**. 11. Conference of the Autoantibody Network, Mississauga, ON, Canada (2017).
7. Gospos A. **Autoimmune neurology diagnostic parameters**. 11. Conference of the Autoantibody Network, Mississauga, ON, Canada (2017).
8. Grypiotis P. **Ultrafast EUROPattern: A new era in automatic IFA microscopy**. 13. Dresden Symposium on Autoantibodies, Dresden, Germany (2017).
9. Jurianz E, Schulz S, Reckert S, Liebhaber A, Keyßer G, Schäfer C, Altermann W, Schlaf G, Schlumberger W, Schaller H-G, Reichert S. **Parodontitis, HLA-Allele und Autoantikörper gegen citrullinierte Peptide bei Patienten mit Rheumatoider Arthritis**. DG PARO-Jahrestagung, Dresden, Germany (2017).
10. Meyer W. **Laboratory diagnostics of autoimmune myopathies**. 13. Dresden Symposium on Autoantibodies, Dresden, Germany (2017).
11. Mindorf S, Dettmann IM, Krüger S, Rentzsch K, Fuhrmann T, Probst C, Komorowski L, Fechner K, Beek van N, Lemcke S, Sárdy M, Bengert C, Benoit S, Hashimoto T, Zillikens D, Pas HH, Jonkman M, Stöcker W, Schmidt E, International Autoimmune Bullous Disease Study Group. **Die diagnostische Relevanz von Anti-Desmocollin Antikörpern bei Pemphiguserkrankungen**. 49. DDG-Tagung, Berlin, Germany (2017).
12. Miske R, Scharf M, Borchers C, Denno Y, Teegen B, Rochow N, Probst C, Stöcker W, Kermer P, Komorowski L. **Identification of RGS8 as an autoantibody target in paraneoplastic cerebellar syndrome**. XXVI AINI Congress/16. ESNI Course, Venedig, Italy (2017).
13. Rohwer S, Denno Y, Weimann A, Stöcker W, Suer W. **Identification of a major allergen from macadamia nut**. 7. International Symposium on Molecular Allergology, Luxemburg City, Luxemburg (2017).
14. Schlumberger, W. **Progress of autoantibody diagnostics over the last 30 years**. PolMedLab, Krakau, Poland (2017).
15. Schlumberger, W. **Technology milestones of Euroimmun during the last 30 years**. Euroimmun Summit for Serological Diagnosis, Peking, China (2017).
16. Steinhagen K, Wilhelm N, Schmidt-CHanasit J, Emmerich P, Huzly D, Lattwein D, Fraune J, Schlumberger W, Warnecke J. **Anti-Zika virus IgA may indicate an acute infection in anti-Zika virus IgM-negative patients**. 1. International Conference on Zika Virus, Washington, USA (2017).
17. Stoecker W. **Techniques in autoimmune diagnostics**. Avancées majeures en auto-immunité, Groupe d'Étude de l'Auto-Immunité Marocain. Casablanca, Morocco (2017).
18. Stoecker W. **Antibodies against neuronal antigens**. Avancées majeures en auto-immunité, Groupe d'Étude de l'Auto-Immunité Marocain. Casablanca, Morocco (2017).
19. Stoecker W. **Prevalence of 39 anti-neural autoantibodies in 40.000 analysed samples (2016)**. 13. Dresden Symposium on Autoantibodies, Dresden, Germany (2017).
20. Verbeek M, Neville D, van Gerresheim E, Vanderstichele HM, Brix B, Steiger A, Dresler M. **Association between nocturnal amyloid beta fluctuations and sleep**. Alzheimer's

Association International Conference 2017, London, England (2017).

21. Zeng Z, Miske R, Scharf M, Denno Y, Probst C, Stöcker W, Komorowski L. **Characterization of cryptic antinuclear autoantibody target antigens**. 13. Dresden Symposium on Autoantibodies, Dresden, Germany (2017).

## Published Patent Applications

1. Buschtez M, Rottmann N, Kayser K. **Gewebekassette**. Chinese and European patent application CN106560409A (filed 2016) and EP 3150278 (filed 2015).
2. Kaffka C. **Incubation tray**. Singaporean patent application 11201708466V (filed 2015).
3. Kemsies D, Schröder D, Nevermann S. **Incubation tray**. Hong Kong patent application 1219307A (filed 2016).
4. Lambeau G, Tomas N, Seitz-Polski B, Stahl RAK. **Methods and kits for monitoring membranous nephropathy**. Chinese, Japanese and European patent application CN106999547A (filed 2015), 2017-524130 (filed 2015) and EP3172567 (filed 2015).
5. Pannhoff H, Feirer C. **Calibration standard for a device for image-based representation of biological material**. Japanese and Brazilian patent application 2017-502280 (filed 2014) and BR112016013866-0 (filed 2014).
6. Scheper T, Meyer W. **Diagnostic immunodetection of autoantibodies to gangliosides**. European patent application EP 3124972 (filed 2015).
7. Scheper T, Meyer W, Schmidt L, Gottstein B, Spiliotis M. **A novel assay for the diagnosis of helminth infections**. European and Chinese patent application EP3156798 (filed 2015) and CN106596964A (filed 2016).
8. Steinhagen K, Deerberg A, Lattwein E, Radzimski C, Böthfür J. **An immunoassay for the diagnosis of viral infections**. International patent application WO2017/144173 (filed 2017).
9. Steinhagen K, Deerberg A, Lattwein E, Radzimski C, Böthfür J. **An immunoassay for the diagnosis of viral infections**. International patent application WO2017/144174 (filed 2017).
10. Stöcker W. **Verbesserte Vorrichtung und Verfahren für Reaktionen zwischen einer festen und einer flüssigen Phase**. Japanese and Hong Kong patent application 2017-500585A (filed 2014) and 1223152A (filed 2014).
11. Stöcker W, Komorowski L, Scharf M, Miske R, Denno Y, Dettmann IM, Probst C, Hahn S, Kade S, Trendelenburg G. **Diagnosis of a neuroautoimmune disease**. Japanese patent application 2017-223636 (filed 2016).
12. Stöcker W, Kowtun A, Huth B, Koschinat L, Richter L. **Verfahren und Vorrichtung zur Überführung von Flüssigkeiten**. Chinese and US patent application CN106457248A (filed 2015) and US2017/0128945A1 (filed 2015).
13. Stöcker W, Kowtun A, Huth B, Koschinat L, Richter L. **Verfahren und Vorrichtung zur Überführung von Flüssigkeiten**. Chinese and US patent application CN106824312A (filed 2015) and US2017/0176303A1 (filed 2016).
14. Stöcker W, Kowtun A, Huth B, Koschinat L, Richter L. **Verfahren und Vorrichtung zur Überführung von Flüssigkeiten**. European patent application EP 3160646 (filed 2015).
15. Stöcker W, Teegen B, Jahnke A. **A diagnostic coincubation assay**. European, Chinese and US patent application EP 3260864 (filed 2017), CN107525919A (filed 2017) and US2017/0370911 (filed 2017).
16. Suer W, Rohwer S, Denno Y. **A novel macadamia allergen**. Chinese, European, Singaporean, Taiwanische, Hong Kong and US patent application CN106995491A (filed 2016), EP 3196209 (filed 2016), 10201609851R (filed 2016), TW 201726710 A (filed 2017), 1241893 (filed 2018) and US-2017-0209566-A1 (filed 2017).
17. Vanmechelen E, De Vos A, Engelborghs S, Peters O, Schipke C. **A novel assay for the**



## 2016

### Publications

1. Alfugham N, Roforth M, Komorowski L, Ott A, Meyer W, Probst C, Lennon VA, Pittock SJ, McKeon A. **A comparison of tissue-based and recombinant protein-based assays for detecting PCA-Tr/DNER-IgG.** Neurol Neuroimmunol Neuroinflamm 3(6):e294 (2016).
2. Castillo-Gomez E, Kästner A, Steiner J, Schneider A, Hettling B, Poggi G, Ostehr K, Uhr M, Asif AR, Matzke M, Schmidt U, Pfander V, Hammer C, Schulz TF, Binder L, Stöcker W, Weber F, Ehrenreich H. **The brain as immunoprecipitator of serum autoantibodies against NMDAR1.** Ann Neurol 79(1): 144-151 (2016).
3. Cavalar M, Beyer AD. **Humane Papillomaviren. Karzinogenese, Nachweismethoden, Impfstrategie.** Der Gynäkologe 49: 311-318 (2016).
4. Corman VM, Albarrak AM, Omrani AS, Albarrak MM, Farah ME, Almasri M, Muth D, Sieberg A, Meyer B, Assiri AM, Binger T, Steinhagen K, Lattwein E, Al-Tawfiq J, Müller MA, Drosten C, Memish ZA. **Viral shedding and antibody response in 37 patients with Middle East Respiratory Syndrome Coronavirus infection.** Clin Infect Dis 62(4): 477-483 (2016).
5. Efthymiou G, Dardiotis E, Liaskos C, Marou E, Tsimourtou V, Scheper T, Meyer M, Daponte A, Sakkas LI, Hadjigeorgiou G, Bogdanos DP. **Anti-hsp60 antibody responses based on Helicobacter pylori in patients with multiple sclerosis: (ir)Relevance to disease pathogenesis.** J Neuroimmunol 298: 19-23 (2016).
6. Fraune J, Gerlach S, Renztsch K, Teegen B, Lederer S, Affeldt K, Fechner K, Danckwardt M, Voigt J, Probst C, Komorowski L, Stöcker W. **Multiparametric serological testing in autoimmune encephalitis using computer-aided immunofluorescence microscopy (CAIFM).** Autoimmun Rev 15(10):937-942 (2016).
7. Haitao R, Yingmai Y, Yan H, Fei H, Xia L, Honglin H, Chaiyan L, Stöcker W, Liying C, Hongzhi G. **Chorea and Parkinson associated with autoantibodies to IgLON5 and responsive to immunotherapy.** J Neuroimmunol 300: 9-10 (2016).
8. Jacek E, Tang KS, Komorowski L, Ajamian M, Probst C, Stevenson B, Wormer GP, Marques AR, Alaedini A. **Epitope-specific evolution of human B cell responses to Borrelia burgdorferi VlsE protein from early to late stages of lyme disease.** J Immunol 196(3): 1036-1043 (2016).
9. Jarius S, Kleiter I, Ruprecht K, Asgari N, Pitarokoili K, Borisow N, Hümmert MW, Trebst C, Pache F, Winkelmann A, Beume LA, Ringelstein M, Stich O, Aktas O, Korporal-Kuhnke M, Schwarz A, Lukas C, Haas J, Fechner K, Buttmann M, Bellmann-Strobl J, Zimmermann H, Brandt AU, Franciotta D, Schanda K, Paul F, Reindl M, Wildemann B; in cooperation with the Neuromyelitis Optica Study Group (NEMOS). **MOG-IgG in NMO and related disorders: a multicenter study of 50 patients. Part 3: Brainstem involvement – frequency, presentation and outcome.** J Neuroinflammation 13(1): 281 (2016).
10. Jarius S, Ruprecht K, Kleiter I, Borisow N, Asgari N, Pitarokoili K, Pache F, Stich O, Beume LA, Hümmert MW, Trebst C, Ringelstein M, Aktas O, Winkelmann A, Buttmann M, Schwarz A, Zimmermann H, Brandt AU, Franciotta D, Capobianco M, Kuchling J, Haas J, Korporal-Kuhnke M, Lillevang ST, Fechner K, Schanda K, Paul F, Wildemann B, Reindl M; in cooperation with the Neuromyelitis Optica Study Group (NEMOS). **MOG-IgG in NMO and related disorders: a multicenter study of 50 patients. Part 1: Frequency, syndrome specificity, influence of**



**disease activity, long-term course, association with AQP4-IgG, and origin.** J Neuroinflammation 13(1): 279 (2016).

11. Jarius S, Ruprecht K, Kleiter I, Borisow N, Asgari N, Pitarokoili K, Pache F, Stich O, Beume LA, Hümmert MW, Ringelstein M, Trebst C, Winklemann A, Schwarz A, Buttmann M, Zimmermann H, Kuchling J, Franciotta D, Capobianco M, Siebert E, Lukas C, Korporal-Kuhnke M, Haas J, Fechner K, Brandt AU, Schanda K, Aktas O, Paul F, Reindl M, Wildemann B; in cooperation with the Neuromyelitis Optica Study Group (NEMOS). **MOG-IgG in NMO and related disorders: a multicenter study of 50 patients. Part 2: Epidemiology, clinical presentation, radiological and laboratory features, treatment responses, and long-term outcome.** J Neuroinflammation 13(1): 280 (2016).
12. Jarius S, Ringelstein M, Haas H, Serysheva II, Komorowski L, Fechner K, Wandinger K-P, Albrecht P, Moser A, Neuen-Jacob E, Hartung H-P, Wildemann B, Aktas O. **Inositol 1,4,5-triphosphate receptor type 1 autoantibodies in paraneoplastic and non-paraneoplastic peripheral neuropathy.** J Neuroinflammation 13(1):278 (2016).
13. Kemna MJ, Schlumberger W, van Paassen P, Dähnrich C, Damoiseaux JG, Cohen Tervaert JW. **The avidity of PR3-ANCA in patients with granulomatosis with polyangiitis during follow-up.** Clin Exp Immunol 185(2):141-147 (2016).
14. Kramp SL, Karayev D, Shen G, Metzger AL, Morris RI, Karayev E, Lam Y, Kazdan RM, Prujin GJ, Saschenbrecker S, Dähnrich C, Schlumberger W. **Development and evaluation of a standardized ELISA for the determination of autoantibodies against cN-1A (Mup44, NT5C1A) in sporadic inclusion body myositis.** Autoimmun Highlights 7(1):16 (2016).
15. Lemcke S, Sokolowski S, Rieckhoff N, Buschtez M, Kaffka C, Winter-Keil A, Schaller C, Rottmann N, Sadik CD, Stöcker W, Zilikens D, Schmidt E. **Automated direct immunofluorescence analyses of skin biopsies.** J Cutan Pathol 43(3): 227-235 (2016).
16. Lerche S, Brockmann K, Pilotto A, Wurster I, Sünkel U, Hobert MA, von Thaler AK, Schulte C, Stoops E, Vanderstichele H, Herbst V, Brix B, Eschweiler GW, Metzger FG, Maetzler W, Berg D. **Prospective longitudinal course of cognition in older subjects with mild parkinsonian signs.** Alzheimer Res Ther 8(1): 42 (2016).
17. Li Q, Michel K, Annahazi A, Demir IE, Ceyhan GO, Zeller F, Komorowski L, Stöcker W, Beyak MJ, Grundy D, Farrugia G, Giorgio de R, Schemann M. **Anti-Hu antibodies activate enteric and sensory neurons.** Sci Rep 6:38216 (2016).
18. Liljander A, Meyer B, Jores J, Müller MA, Lattwein E, Njeru I, Bett B, Drosten C, Corman VM. **MERS-CoV antibodies in humans, Africa, 2013-2014.** Emerg Infect Dis 22(6): 1089-1089 (2016).
19. Lopez-Chiriboga AS, Komorowski L, Kümpfel T, Probst C, Hinson SR, Pittock SJ, McKeon A. **Metabotropic glutamate receptor type 1 autoimmunity: Clinical features and treatment outcomes.** Neurology 86(11): 1009-1013 (2016).
20. Malter MP, Widman G, Galldiks N, Stoecker W, Helmstaedt C, Elger CE, Wagner J. **Suspected new-onset autoimmune temporal lobe epilepsy with amygdala enlargement.** Epilepsia 57(9):1485-94 (2016).
21. Marquetand J, van Lessen M, Bender B, Reimold M, Elsen G, Stoecker W, Synofzik M. **Slowly progressive LGI1 encephalitis with isolated late-onset cognitive dysfunction: a treatable mimic of Alzheimer's disease.** Eur J Neurol 23(5): e28-29 (2016).
22. Mersmann M, Dworschak J, Ebermann K, Komorowski L, Schlumberger W, Stöcker W, Zilikens D, Probst C, Schmidt E. **Immunoabsorber for specific apheresis of autoantibodies in the treatment of bullous pemphigoid.** Arch Dermatol Res 308(1): 31-38 (2016).
23. Miske R, Gross CC, Scharf M, Golombek KS, Hartwig M, Bhatia U, Schulte-Mecklenbeck A, Bönte K, Strippel C, Schöls L, Synofzik M, Lohmann H, Dettmann IM, Deppe M, Mindorf S, Warnecke T, Denno Y, Teegen B, Probst C, Brakopp S, Wandinger KP, Wiendl H, Stöcker W, Meuth SG, Komorowski L, Melzer N. **Neurochondrin is a neuronal target antigen in autoimmune cerebellar degeneration.** Neurol Neuroimmunol Neuroinflamm 4(1):e307

(2016).

24. Miske R, Hahn S, Rosenkranz T, Müller M, Dettman IM, Mindorf S, Denno Y, Brakopp S, Teegen B, Probst C, Melzer N, Meinck HM, Terborg C, Stöcker W, Komorowski L. **Autoantibodies against glutamate receptor delta2 after allogenic stem cell transplantation.** *Neurol Neuroimmunol Neuroinflamm* 3(4):e255 (2016).
25. Müller MA, Devignot S, Lattwein E, Corman VM, Maganga GD, Gloza-Rausch F, Binger T, Vallo P, Emmerich P, Cottontail VM, Tschapka M, Oppong S, Drexler JF, Weber F, Leroy EM, Drosten C. **Evidence for widespread infection of African bats with Crimean-Congo hemorrhagic fever-like viruses.** *Sci Rep* 6:26637 (2016).
26. Nishikawa R, Takahashi H, Matsuda M, Imaoka K, Ogawa M, Teye K, Tsuchisaka A, Koga H, Komorowski L, Probst C, Hachiya T, Fritzler MJ, Ishii N, Ohata C, Furumura M, Krol RP, Muro Y, Morita E, Hashimoto T. **Anti-early endosome antigen 1 autoantibodies were detected in pemphigus-like patient but not in the majority of pemphigus disease.** *Exp Dermatol* 25(5): 368-374 (2016).
27. Pavlidis P, Komorowski L, Teegen B, Liaskos C, Koutsoumpas AL, Smyk DS, Perricone C, Mytilinaiou MG, Stöcker W, Forbes A, Bogdanos DP. **Diagnostic and clinical significance of Crohn's disease-specific pancreatic anti-GP2 and anti-CUZD1 antibodies.** *Clin Chem Lab Med* 54(2):249-56 (2016).
28. Rasche A, Saqib M, Liljander AM, Bornstein S, Zohaib A, Renneker S, Steinhagen K, Wernery R, Younan M, Gluecks I, Hilali M, Musa BE, Jores J, Wernery U, Drexler JF, Drosten C, Corman VM. **Hepatitis E virus infection in dromedaries, North and East Africa, United Arab Emirates, and Pakistan, 1983-2015.** *Emerg Infect Dis* 22(7):1249-1252 (2016).
29. Recke A, Oei A, Hübner F, Fechner K, Graf J, Hagenah J, May C, Woitalla D, Salmen A, Zillikens D, Gold R, Schlumberger W, Schmidt E. **Parkinson's disease and multiple sclerosis are not associated with autoantibodies against structural proteins of the dermal-epidermal junction.** *Br J Dermatol* 175(2):407-409 (2016).
30. Schou M, Saether SG, Borowski K, Teegen B, Kondziella D, Stoecker W, Vaaler A, Reitan SK. **Prevalence of serum anti-neuronal autoantibodies in patients admitted to acute psychiatric care.** *Psychol Med* 46(16): 3303-3313 (2016).
31. Stefanou MI, Komorowski L, Kase S, Bornemann A, Zimeann U, Synofzik M. **A case of late-onset, thymoma-associated myasthenia gravis with ryanodine receptor and titin antibodies and concomitant granulomatous myositis.** *BMC Neurol* 16(1):172 (2016).
32. Steinhagen K, Probst C, Radzimski C, Schmidt-Chanasit, Emmerich P, van Esbroeck M, Schinkel J, Grobusch MP, Goorhuis A, Warnecke JM, Lattwein E, Komorowski L, Deerberg A, Saschenbrecker S, Stöcker W, Schlumberger W. **Serodiagnosis of Zika virus infections by a novel NS1-based ELISA devoid of cross-reactivity with Dengue virus antibodies: a multicohort study of assay performance, 2015 to 2016.** *Eurosurveillance*, 21(50):pii=30426 (2016).
33. Steubl D, Block M, Herbst V, Nockher WA, Schlumberger W, Satanoskij R, Angermann S, Hasenau AL, Stecher L, Heemann U, Renders L, Scherberich J. **Plasma Uromodulin correlates with kidney function and identifies early stages in chronic kidney disease patients.** *Medicine (Baltimore)* 95(10): e3011 (2016).
34. Vanderstichele HM, Janelidze S, Demeyer L, Coart E, Stoops E, Herbst V, Mauroo K, Brix B, Hansson O. **Optimized standard operating procedures for the analysis of cerebrospinal fluid A $\beta$ 42 and the ratios of A $\beta$  isoforms using low protein binding tubes.** *J Alzheimer Dis* 53(3): 1121-1132 (2016).
35. Wagner J, Schoene-Bake JC, Witt JA, Helmstaedter C, Malter MP, Stoecker W, Probst C, Weber B, Elger CE. **Distinct white matter integrity in glutamic acid decarboxylase and voltage-gated potassium channel-complex antibody-associated limbic encephalitis.** *Epilepsia* 57(3): 475-483 (2016).
36. Waters P, Reindl M, Saiz A, Schanda K, Tuller F, Kral V, Nytrova P, Sobek O, Nielsen HH,

- Barington T, Lillevang ST, Illes Z, Rentzsch K, Berthele A, Berki T, Granieri L, Bertolotto A, Giometto B, Zuliani L, Hamann D, van Pelt ED, Hintzen R, Höftberger R, Costa C, Comabella M, Montalban X, Tintoré M, Siva A, Altintas A, Deniz G, Woodhall M, Palace J, Paul F, Hartung HP, Aktas O, Jarius S, Wildemann B, Vedeler C, Ruiz A, Leite MI, Trillenber P, Probst M, Saschenbrecker S, Vincent A, Marignier R. **Multicentre comparison of a diagnostic assay: aquaporin-4 antibodies in neuromyelitis optica.** J Neurol Neurosurg Psychiatry. 87(9):1005-15 (2016).
37. Wolf J, Jahnke A, Fechner K, Richter T, Laass MW, Hauer A, Stern M, Laffolie de J, Flemming G, Mothes T. **Primate liver tissue as an alternative substrate for endomysium antibody immunofluorescence testing in diagnostics of paediatric coeliac disease.** Clin Chim Acta 460: 72-77 (2016).

## Abstracts & Posters

1. Axel K, Pfeiffer T, Koerner D, Wilcke A, Steller U. **EUROArray HLA-DQ2/DQ8 for the determination of the genetic risk factors HLA-DQ2/DQ8 in the diagnosis of celiac disease.** 10. International Congress on Autoimmunity, Leipzig, Germany (2016).
2. Beier N, Eichelmann AI, Warnecke JM, Steinhagen K. **Evaluation of a newly developed Anti-Trypanosoma cruzi ELISA (IgG) as a screening assay for Chagas disease.** 26. European Congress of Clinical Microbiology and Infectious Diseases, Amsterdam, Netherlands (2016).
3. Brix B, Dölle S, Rohwer S, Brandhoff S, Berger A, Suer W, Weimann A, Worm M. **Value of specific IgE against storage proteins for the diagnosis of tree nut and peanut allergy.** 4. Food Allergy and Anaphylaxis Meeting, Rom, Italy (2016).
4. Dähnrich C, Beek van N, Hornig N, Goletz J, Dworschak J, Schlumberger W, Zillikens D, Schmidt E. **Sensitive and specific one-step diagnostics of autoimmune bullous dermatoses with a multivariant Profile ELISA.** 10. International Congress on Autoimmunity, Leipzig, Germany (2016).
5. Daehnrich C, Beek van N, Johannsen N, Goletz S, Dworschak J, Schlumberger W, Zillikens D, Schmidt E. **A multivariant profile ELISA for one-step diagnostics of autoimmune bullous dermatoses.** Pathogenesis of Pemphigus and Pemphigoid 2016, München, Germany (2016).
6. Dunphy J, Kramp SL, Hornig N, Hamman P, Daehnrich C, Schlumberger W, McHugh N. **Comparison of conventional and a nucleosome linker-based anti-dsDNA ELISA.** 10. International Congress on Autoimmunity, Leipzig, Germany (2016).
7. Ernst D, Baerlecke N, Weiberg D, Derlin T, Schlumberger W, Schmidt RE, Witte T. **Antibodies against myc-associated zinc finger protein: a biomarker for early atherosclerosis.** 44. Kongress der Deutschen Gesellschaft für Rheumatologie, Frankfurt, Germany (2016).
8. Fechner K, Affeldt K, Pototzki L, Ockenga W, Jahnke A, Fraune J, Stöcker W. **Evaluation of modified Crithidia luciliae IIFT for detection of anti-dsDNA antibodies.** 13. International Workshop on Autoantibodies and Autoimmunity, Kyoto, Japan (2016).
9. Fechner K, Gerlach S, Affeldt K, Pototzki L, Krause C, Ockenga W, Jahnke A, Voigt J, Fraune J, Stöcker W. **Evaluation of Crithidia luciliae IFT can be reliably automated with EUROPattern.** 13. International Workshop on Autoantibodies and Autoimmunity, Kyoto, Japan (2016).
10. Fechner K, Komorowski L, Teegen B, Niemann S, Probst C, Stöcker W. **DNA-bound lactoferrin is the major target for pANCA in ulcerative colitis.** 13. International Workshop on Autoantibodies and Autoimmunity, Kyoto, Japan (2016).
11. Fechner K, Rohwäder E, Krause C, Becker C, Ockenga W, Jahnke A, Voigt J, Fraune J, Stöcker W. **Automated evaluation of ANA patterns with EUROPattern meets the ICAP guidelines.** 13. International Workshop on Autoantibodies and Autoimmunity, Kyoto, Japan (2016).

12. Fechner K, Wolf J, Jahnke A, Richter T, Uhlig HA, Laass MW, Hauer A, Laffolie de J, Stern M, Flemming G, Mothes T. **Evaluation of liver tissue as substrate for detection of endomysium antibodies.** 13. International Workshop on Autoantibodies and Autoimmunity, Kyoto, Japan (2016).
13. Gerlach S, Hahn M, Lederer S, Lattwein E, Mielke J, Fraune J, Probst C, Fechner K, Stöcker W, Voigt J. **Computer-aided immunofluorescence microscopy of recombinant cell-based IIFT in neurological diagnostics.** 10. International Congress on Autoimmunity, Leipzig, Germany (2016).
14. Hahn M, Krause C, Lattwein E, Janku M, Ens K, Warnecke J, Fraune J, Fechner K, Stöcker W. **Automated immunofluorescence microscopy in differential diagnostics of Zika, Dengue and Chikungunya virus infections.** Institut Pasteur International Network Scientific Symposium, Paris, France (2016).
15. Hamann P, Hornig N, Kramp SL, Dähnrich C, Schlumberger W, McHugh N. **Side-by-side method comparison of a conventional and a nucleosome linker-based anti-dsDNA ELISA.** 10. International Congress on Autoimmunity, Leipzig, Germany (2016).
16. Herbst V, Block M, Kramp SL, Schlumberger W, Stöcker W, Scherberich J. **Serum uromodulin levels in serologically characterized patients with autoantibodies against dsDNA, PLA2R and GBM.** 10. International Congress on Autoimmunity, Leipzig, Germany (2016).
17. Herbst V, Block M, Schlumberger W, Stöcker W, Riemekasten G, Enghard P, Scherberich J. **Serum uromodulin in SLE patients with and without kidney involvement.** 10. International Congress on Autoimmunity, Leipzig, Germany (2016).
18. Herbst V, Zeplin K, Mauroo K, Demeyer L, Vanderstichele H, Stoops E. **Performance testing and analytical validation of new ELISAs for  $\beta$ -amyloid isoforms ( $A\beta(1-38)$ ,  $A\beta(1-40)$ ,  $A\beta(1-42)$ ) in plasma.** Alzheimer's Association International Conference, Toronto, Canada (2016).
19. Kaden J, Herbst V, Block M, Abendroth D, Schlumberger W. **Dynamics and diagnostic relevance of serum uromodulin levels in kidney graft recipients.** DTG Conference, Essen, Germany (2016).
20. Klemens O, Oesterreich B, Streit A, Warnecke JM, Steinhagen K. **Comparison of antigens from *Strongyloides papillosus* versus *ratti* for diagnosis of human strongyloidiasis by ELISA.** 2. International Conference on Parasitology, Manchester, UK (2016).
21. Köppe K, Herbst V, Kramp SL, Nitzsche T, Sina C, Schlumberger W, Stöcker W. **Fecal calprotectin as marker of chronic inflammatory bowel disease.** 10. International Congress on Autoimmunity, Leipzig, Germany (2016).
22. Lederer S, Teegen B, Komorowski L, Fechner K, Stöcker W, Probst C. **Differential diagnosis of autoimmune limbic encephalitis by multiparametric serological testing.** 10. International Congress on Autoimmunity, Leipzig, Germany (2016).
23. Mende M, Cho E, Shen G, Karayev D, Metzger A, Morris RI, Kramp SL, Daehnrich C, Schlumberger W. **Presence of anti-cN-1A (Mup44, NT5c1A) IgG is specific for sporadic inclusion body myositis.** 13. International Workshop on Autoantibodies and Autoimmunity, Kyoto, Japan (2016).
24. Mende M, Daehnrich C, Beek van N, Johannsen N, Goletz S, Dworschak J, Schlumberger W, Zillikens D, Schmidt E. **A multivariant profile ELISA for one-step diagnostics of autoimmune bullous dermatoses.** 13. International Workshop on Autoantibodies and Autoimmunity, Kyoto, Japan (2016).
25. Meyer W, Scheper T, Komorowski L, Ott A, Meinck HM, Schlumberger W, Stöcker W. **Determination of autoantibodies to human GAD65 in stiff-person syndrome, verification using GAD65-expressing HEK293 cells.** 10. International Congress on Autoimmunity, Leipzig, Germany (2016).
26. Miske R, Scharf M, Hahn S, Kade S, Denno Y, Begemann N, Teegen B, Mindorf S, Dettmann I, Probst C, Radzimski C, Brakopp S, Stöcker W, Komorowski L. **Identification of new**

- autoantigens by histo-immunoprecipitation, mass spectrometry and recombinant cell-based indirect immunofluorescence.** 10. International Congress on Autoimmunity, Leipzig, Germany (2016).
27. Nogueira JFC, Ferreira PMS, Oliveira SF, Hanada T, Affeldt K, Warnecke JM, Enk MJ. **Evaluation of Anti-S. mansoni IFT as a screening assay for active Schistosoma infections.** 27. Annual Meeting of the German Society for Parasitology, Goettingen, Germany (2016).
  28. Oesterreich B, Steinhagen K, Warnecke JM, Gottstein B. **Simultaneous screening of serum anti-Echinococcus granulosus and E. multilocularis antibodies by ELISA.** 26. European Congress of Clinical Microbiology and Infectious Diseases, Amsterdam, Netherlands (2016).
  29. Poesen K, Dedeene L, Gille B, Stoops E, Demeyer L, Herbst V, Vanderstichele H. **Improvement of reproducibility for CSF biomarker analysis by integration of automation in the test procedure.** Alzheimer's Association International Conference, Toronto, Canada (2016).
  30. Rentzsch K, Warnemünde N, Fraune J, Ockenga W, Stoecker W, Fechner K. **Paraneoplastic pemphigus-specific autoantibodies cause various staining patterns on IIF substrates.** Pathogenesis of Pemphigus and Pemphigoid 2016 München, Germany (2016).
  31. Scheper T, Meyer W, Rentzsch K, Kramp SL, Fraune J, Schlumberger W, Stöcker W, Teegen B. **Autoantibodies to centromeres, Scl-70, SS-A and Ro-52 in patient samples positive for primary biliary cirrhosis-associated autoantibodies: a prospective study in a pathology laboratory.** 10. International Congress on Autoimmunity, Leipzig, Germany (2016).
  32. Schönfeld L, Scheper T, Warnecke JM, Gottstein B. **A newly developed membrane-based assay for the simultaneous screening and differentiation of Echinococcosis.** 26. European Congress of Clinical Microbiology and Infectious Diseases, Amsterdam, Netherlands (2016).
  33. Steinhagen K, Probst C, Radzimski C, Schmidt-Chanasit J, Emmerich P, Lattwein E, Komorowski L, Deerberg A, Saschenbrecker S, Stöcker W, Schlumberger W. **Serodiagnosis of acute and past Zika virus infections without cross-reactivity to other flaviviruses by NS1-based ELISA.** 26. European Congress of Clinical Microbiology and Infectious Diseases, Amsterdam, Netherlands (2016).
  34. Steinhagen K, Schmidt-Chanasit J, Emmerich P, Lattwein E, Fraune J, Schlumberger W, Warnecke J. **Anti-Zika virus IgA as putative indicator of acute infection in anti-Zika IgM-negative patients.** 6. International Meeting on Emerging Diseases and Surveillance, Wien, Austria (2016).
  35. Steubl D, Block M, Herbst V, Nockher WA, Schlumberger W, Angermann S, Heemann U, Renders L, Scherberich J. **Serum uromodulin predicts graft failure in renal transplant recipients.** 53. ERA EDTA Congress, Wien, Österreich (2016).
  36. Struyfs H, Vanmechelen E, Roeck de EE, Fransen E, Niemantsverdriet E, Somers C, Goossens J, Vos de A, Herbst V, Bossche van den T, Mossevelde van S, Goeman J, Deyn de PP, Bjerke M. **CSF biomarkers to predict rate of cognitive decline in Alzheimer's disease.** Alzheimer's Association International Conference, Toronto, Canada (2016).
  37. Teegen B, Jahnke A, Fraune J, Fechner K, Rentzsch K, Richter T, Stöcker W. **Determination of tissue bound antibodies by co-incubating frozen sections of biopsies with defined antigen substrates in different autoimmune diseases.** 46. Annual Meeting German Society for Immunology (DGfI), Hamburg, Germany (2016).
  38. Teegen B, Meyer W, Kramp SL, Fraune J, Scheper T, Schlumberger W, Stöcker W, Rentzsch K. **Co-occurrence of autoantibodies to DFS70 and autoantibodies associated with rheumatic diseases.** 10. International Congress on Autoimmunity, Leipzig, Germany (2016).
  39. Vanderstichele H, Janelidze S, Demeyer L, Coart E, Stoops E, Herbst V, Mauroo K, Brix B, Hansson O. **Importance of different factors for analysis of  $\beta$ -amyloid isoforms in CSF and proposal for an improved standard operating procedure.** Alzheimer's Association International Conference, Toronto, Canada (2016).

## Lectures

1. Fechner K. **Differential diagnosis of autoimmune limbic encephalitis by multiparametric serological testing.** 10. International Congress on Autoimmunity, Leipzig, Germany (2016).
2. Fechner K. **International Consensus on ANA pattern (ICAP): Industry point of view.** Autoimunidade para o século XXI: Do FAN aos modernos biomarcadores, Sao Paulo, Brazil (2016).
3. Fechner K. **State of the Art in Automated Assays for Indirect Immunofluorescence.** Autoimunidade para o século XXI: Do FAN aos modernos biomarcadores, Sao Paulo, Brazil (2016).
4. Fechner K. **Serological diagnostic of autoimmune bullous dermatoses.** Autoimunidade para o século XXI: Do FAN aos modernos biomarcadores, Sao Paulo, Brazil (2016).
5. Fechner K. **Introduction of ANCA reading and evaluation.** Workshop: Curso avançado de diagnostico microscopico em autoimunidade, Sao Paulo, Brazil (2016).
6. Gospos A. **Autoantibody diagnostics in primary membranous nephropathy.** 10. Conference of the Autoantibody Network, Jasper, AB, Canada (2016).
7. Gospos A. **Determination of autoantibodies in autoimmune bullous dermatoses.** 10. Conference of the Autoantibody Network, Jasper, AB, Canada (2016).
8. Gospos A. **Serological diagnosis in myositis and systemic sclerosis.** 10. Conference of the Autoantibody Network, Jasper, AB, Canada (2016).
9. Gospos A. **Serological diagnosis of autoimmune liver diseases.** 10. Conference of the Autoantibody Network, Jasper, AB, Canada (2016).
10. Kramp SL. **Anti-CN-1A [MUP44, NT5C1A] IgG serological assay for the diagnosis of sporadic inclusion body myositis.** 10. International Congress on Autoimmunity, Leipzig, Germany (2016).
11. Scharf M. **Autoantibodies against the flotillin complex in optic neuritis associated with multiple sclerosis.** 10. International Congress on Autoimmunity, Leipzig, Germany (2016).
12. Schlumberger W. **Serological diagnosis of autoimmune blistering skin diseases.** MedLab Congress, Dubai, United Arab Emirates (2016).
13. Schlumberger, W. **Zika virus serology on the background of cocirculating arboviruses.** SOBRAU Meeting, Sao Paulo, Brazil (2016).
14. Schlumberger, W. **Laboratory diagnostics in autoimmune myopathies.** SOBRAU Meeting, Sao Paulo, Brazil (2016).
15. Schlumberger, W. **UFOs in the laboratory.** SOBRAU Meeting, Sao Paulo, Brazil (2016).
16. Schlumberger, W. **Novel biomarkers in autoimmune kidney diseases.** SOBRAU Meeting, Sao Paulo, Brazil (2016).
17. Steinhagen K, Schmidt-Chanasit J, Emmerich P, Lattwein E, Fraune J, Schlumberger W, Warnecke J. **NS1-based Anti-Zika Virus ELISA revealed no cross-reactivity with other flavivirus infections or vaccination.** 6. European Congress of Virology, Hamburg, Germany (2016).
18. Stoecker W. **The incredible success story of immunofluorescence.** 10. International Congress on Autoimmunity, Leipzig, Germany (2016).
19. Stoecker W. **Multiparameter autoantibody screening in the diagnosis of neurological autoimmune diseases.** Scientific gathering on Antibodies Research: Antibodies 2016. Philadelphia, USA (2016).
20. Stoecker W. **Establishing a modern diagnostic company - a review.** XX. Casomil, Zámek



Loučeň, Czech Republic (2016).

21. Stoecker W. **Multiparameter autoantibody screening in the diagnosis of neurological autoimmune diseases**. 10. Conference of the Autoantibody Network. Jasper, Canada (2016).
22. Stoecker W. **Latest innovations in standardization, miniaturization and application of the immunofluorescence**. 10. Conference of the Autoantibody Network. Jasper, Canada (2016).
23. Stoecker W. **Latest innovations in Autoantibody Detection for better diagnosis of AIRD**. Indian Rheumatology Association Conference. Kochi, Indien (2016).

## Published Patent Applications

1. Eggert L. **Traction arrangement**. European und International patent application EP3106713 (filed 2015) und WO2016/202448 (filed 2016).
2. Ehlers A, Michel Y, Rohwer S, Suer W, Unger M. **Verbesserter Nachweis von Nussallergien**. Chinese und US patent application CN106084018A (filed 2016) und US20160320407A1 (filed 2016).
3. Herbst V, Nagel B. **Vorrichtung und Verfahren zur Aufbewahrung und zum Transport einer Körperflüssigkeitsprobe**. European und US patent application EP3013478 und US2016/0151780A1 (filed 2014).
4. Kaffka C. **Inkubationsrinne**. International und European patent application WO2016/169576 (filed 2015) und EP3085446 (filed 2015).
5. Kemsies D, Schröder D, Nevermann S. **Inkubationswanne**. European, Chinesische, Korean und Singaporean patent application EP3025779 (filed 2014), CN105628916A (filed 2015), 1020160063268 (filed 2015) und 10201509612T (filed 2015).
6. Kemsies D, Schröder D, Nevermann S. **Incubation tray**. European und Chinese patent application EP3025780 (filed 2014) und CN105628915A (filed 2015).
7. Koschinat L. **Vorratsbehälter für Flüssigkeiten**. European, Chinese und US- patent application EP3034170, CN105699674A und US 2016-0167848 (filed 2015).
8. Meyer W, Scheper T, Kaffka R. **Verfahren zur automatischen Auswertung von inkubierten Blotstreifen**. European und US- patent application EP2989446 und US 2016/0097724A1 (filed 2014).
9. Pannhoff H, Feirer C. **Calibration standard for a device for image-based representation of biological material**. Chinese, European und US patent application CN105917212A (filed 2014), EP3084394 (filed 2014) und US2016/0313249A1 (filed 2014).
10. Scheper T, Meyer M, Langner J. **Vorrichtung und Verfahren zur Diagnose eines Nasopharynx-Karzinoms**. Chinese patent application CN105308459A (filed 2014).
11. Stöcker W. **Verbesserte Vorrichtung und Verfahren für Reaktionen zwischen einer festen und einer flüssigen Phase**. European, Chinese, US und Korean patent application EP3063525, CN105723202A, US2016/0258971A1 und 1020160079844 (filed 2014).
12. Stöcker W, Komorowski L, Miske R, Scharf M, Denno Y, Probst C. **A novel diagnostically relevant autoantibody**. European patent application EP3026434 (filed 2014).
13. Stöcker W, Komorowski L, Scharf M, Miske R, Denno Y, Blöcker IM, Probst C, Tiede S. **A novel diagnostically relevant autoantibody**. European patent application EP3018478 (filed 2014).
14. Stöcker W, Komorowski L, Scharf M, Miske R, Denno Y, Dettmann IM, Probst C, Hahn S, Kade S, Trendelenburg G. **Diagnosis of a neuroautoimmune disease**. Chinese, European und US patent application CN106243211A (filed 2016), EP3101424 (filed 2016) und US2016/0355565A1 (filed 2016).
15. Stöcker W, Komorowski L, Scharf M, Miske R, Denno Y, Probst C, Dettmann IM, Teegen B,

- Melzer N, Wiendl H, Meuth S. **Diagnosis of a novel autoimmune disease**. Chinese, European und US patent application CN106065028A (filed 2016), EP3086120 (filed 2015) und US 2016/0311876 (filed 2016).
16. Stöcker W, Rottmann N, Koop N. **Transparenter Objektträger mit Kennzeichnung**. Chinese, European und US patent application CN105916583A (filed 2014), EP3094404 (filed 2014) und US2016/0334612 (filed 2014).
17. Stöcker W, Wuttig D. **Vorrichtung und Verfahren zur Bestimmung des Volumens einer Flüssigkeit**. European patent application EP3072594 (filed 2015).
18. Liwei X, Shaojun L. **Aspirationsnadel**. German patent application 102016002846.7 (filed 2016).

## 2015

### Publications

1. Bremer HD, Lattwein E, Renneker S, Lilliehöök I, Rönnelid J, Hansson-Hamlin H. **Identification of specific antinuclear antibodies in dogs using line immunoassay and enzyme-linked immunosorbent assay**. Vet Immunol Immunopathol 168(3-4): 233-241 (2015).
2. Diecker J, Schlumberger W, McHugh N, Hamann P, Vlag van der J, Berden JH. **Reactivity in ELISA with DNA-loaded nucleosomes in patients with proliferative lupus nephritis**. Mol Immunol 68: 20-24 (2015).
3. Gerlach S, Affeldt K, Pototzki L, Krause C, Voigt J, Fraune J, Fechner K. **Automated evaluation of Crithidia luciliae based indirect immunofluorescence tests: A novel application of the EUROPattern-Suite technology**. J Immunol Res Article 2015:742402 (2015).
4. Gosink J. **Parathyroid hormone, calcitonin and vitamin D testing in calcium and bone metabolic disorders**. Medlab Magazine 2 (2015).
5. Gutiérrez C, Tejedor-Junco MT, González M, Lattwein E, Renneker S. **Presence of antibodies but no evidence for circulation of MERS-CoV in dromedaries on the Canary Islands, 2015**. Euro Surveill 20(37) (2015).
6. Jarius S, Wildemann B, Stöcker W, Moser A, Wandinger KP. **Psychotic syndrome associated with anti-Ca/ARHGAP26 and voltage-gated potassium channel antibodies**. J Neuroimmunol 286: 79-82 (2015).
7. Krause C, Ens K, Fechner K, Voigt J, Fraune J, Rohwäder E, Hahn M, Danckwardt M, Feirer C, Barth E, Martinetz T, Stoecker W. **EUROPattern-Suite technology for computer-aided immunofluorescence microscopy in autoantibody diagnostics**. Lupus 24: 516-529 (2015).
8. Langenhan J, Mersmann M, Dworschak J, Schmidt E, Probst C, Stöcker W. Track Z (FS): **Novel developments in the diagnosis and treatment of autoimmune blistering diseases**. Biomed Tech (Berl.) 60 Suppl 1:s407-25 (2015).
9. Leyboldt F, Höftberger R, Titulaer MJ, Armangue T, Gresa-Arribas N, Jahn H, Rostasy K, Schlumberger W, Meyer T, Wandinger KP, Rosenfeld MR, Graus F, Dalmau J. **Investigations on CXCL13 in anti-N-methyl-D-aspartate-receptor encephalitis: a potential biomarker of treatment response**. JAMA Neurol 72(2): 180-186 (2015).
10. Mastroianni-Kirsztajn G, Hornig N, Schlumberger W. **Autoantibodies in renal disease – clinical significance and recent developments in serological detection**. Front Immunol 11(6): 221 (2015).

11. Michaels MA, Jendrek ST, Korf T, Nitzsche T, Teegen B, Komorowski L, Derer S, Schröder T, Baer F, Lehnert H, Büning J, Fellerman K, Sina C. **Pancreatic autoantibodies against CUZD1 and GP2 are associated with distinct clinical phenotypes of Crohn's Disease.** *Inflamm Bowel Dis* 21(12): 2864-2872 (2015).
12. Müller MA, Meyer B, Corman VM, Al-Masri M, Turkestani A, Ritz D, Sieberg A, Aldabbagh S, Bosch B-J, Lattwein E, Alhakeem RF, Assiri AM, Albarrak AM, Al-Shangiti AM, Al-Tawfiq JA, Wikramaratna P, Alrabeeah AA, Drosten C, Memish ZA. **Presence of Middle East respiratory syndrome coronavirus antibodies in Saudi Arabia: a nationwide, cross-sectional, serological study.** *Lancet Infect Dis* 15(5): 559-564 (2015).
13. Muth D, Corman VM, Meyer B, Assiri A, Al-Masri M, Farah M, Steinhagen K, Lattwein E, Al-Tawfiq JA, Albarrak A, Müller MA, Drosten C, Memish ZA. **Infectious MERS-Coronavirus excretion and serotype variability based on live virus isolates from patients in Saudi Arabia.** *J Clin Microbiol* 53(9): 2951-2955 (2015).
14. Papp M, Sipeki N, Tornai T, Altorjay I, Norman GL, Shums Z, Roggenbuck D, Fechner K, Stöcker W, Antal-Szalmas P, Veres G, Lakatos PL. **Rediscovery of the anti-pancreatic antibodies and evaluation of their prognostic value in a prospective clinical cohort of Crohn's patients: the importance of specific target antigens (GP2 and CUZD1).** *J Crohns Colitis* 9(8): 659-68 (2015).
15. Piepgras J, Höltje M, Michel K, Li Qin, Otto C, Drenckhahn C, Probst C, Schemann M, Jarius S, Stöcker W, Balint B, Meinck H-M, Buchert R, Dalmau J, Ahnert-Hilger G, Ruprecht K. **Anti-DPPX encephalitis: pathogenic effects of antibodies on gut and brain neurons.** *Neurology* 85(10): 890-897 (2015).
16. Probst C, Komorowski L, Graaff de E, Coevorden-Hameete van M, Rogemond V, Honnorat J, Sabeter L, Graus F, Jarius S, Voltz R, Wildemann B, Franciotta D, Blöcker IM, Schlumberger W, Stöcker W, Sillevs Smitt PAE. **Standardized test for anti-tr/DNER in patients with paraneoplastic cerebellar degeneration.** *Neurol Neuroimmunol Neuroinflamm* 2(2):e68 (2015).
17. Rohwäder E, Locke M, Fraune J, Fechner K. **Diagnostic profile on the IFA 40: HEp-20-10 – an immunofluorescence test for reliable antinuclear antibody screening.** *Expert Rev Mol Diagn* 15(4):451-62 (2015).
18. Reichert S, Schlumberger W, Dähnrich C, Hornig N, Altermann W, Schaller HG, Schulz S. **Association of levels of antibodies against citrullinated cyclic peptides and citrullinated  $\alpha$ -enolase in chronic and aggressive periodontitis as a risk factor of rheumatoid arthritis: a case control study.** *J Trans Med* 132(83):1-10 (2015).
19. Scharf M, Miske R, Heidenreich F, Giess R, Landwehr P, Blöcker M, Begemann N, Denno Y, Tiede S, Dähnrich C, Schlumberger W, Unger M, Teegen B, Stöcker W, Probst C, Komorowski L. **Neuronal Na(+)/K(+) ATPase is an autoantibody target in paraneoplastic neurological syndrome.** *Neurology* 84(16): 1673-1679 (2015).
20. Schlumberger W. **Autoantibody diagnostics in autoimmune nephropathies.** *Medlab Magazine* 2 (2015).
21. Seitz-Polski B, Dolla G, Payré C, Tomas NM, Lochouart M, Jeammet L, Mariat C, Krummel T, Burtey S, Courivaud C, Schlumberger W, Zorzi K, Benzaken S, Bernard G, Esnault VL, Lambeau G. **Cross-reactivity on anti-PLA2R1 autoantibodies to rabbit and mouse PLA2R1 antigens and development of two novel ELISAs with different diagnostic performances in idiopathic membranous nephropathy.** *Biochimie* 118: 104-115 (2015).
22. Stoeck K, Carstens P-O, Jarius S, Raddatz D, Stöcker W, Wildemann B, Schmidt J. **Prednisolone and azathioprine are effective in DPPX antibody-positive autoimmune encephalitis with glucocorticosteroids and azathioprine.** *Neurol Neuroimmunol Neuroinflamm* 2(3):e86 (2015).
23. Sutphen CL, Jasielec MS, Shah AR, Macy EM, Xiong C, Vlassenko AG, Benzinger TLS, Stoops EEJ, Vanderstichele HMJ, Brix B, Darby HA, Vandijck MLJ, Ladenson JH, Morris JC, Holtzman DM, Fagan AM. **Longitudinal cerebrospinal fluid biomarker changes in**

**preclinical Alzheimer's disease during middle age.** JAMA Neurol 72(9):1029-1042 (2015).

24. Zerche M, Weissenborn K, Ott C, Dere E, Asif AR, Worthmann H, Hassouna I, Rentzsch K, Tryc AB, Dahm L, Steiner J, Binder L, Wiltfang J, Sirén A, Stöcker W, Ehrenreich H. **Pre-existing serum autoantibodies against the NMDAR subunit NR1 modulate evolution of lesion size in acute ischemic stroke.** Stroke 46(5):1180-1186 (2015).

## Abstracts & Posters

1. Brix B, Vanderstichele H. **Use of Beta-Amyloid 1-42/1-40 Ratio in routine diagnostic labs.** 11. International Conference on Alzheimer's and Parkinson's Disease, Nizza, France (2015).
2. Cavalar M, Harder M, Hellberg L, Opelka P, Götzl J, Steller U. **HPV detection and typing by molecular diagnostic microarray.** EUROGIN, Sevilla, Spain (2015).
3. Dähnrich C, van Beek N, Hornig N, Goletz S, Dworschak J, Schlumberger W, Zillikens D, Schmidt E. **Multivarianter Profil-ELISA zur sensitiven und spezifischen Einschrittdiagnostik bullöser Autoimmundermatosen.** 48. DDG Tagung, Berlin, Germany (2015).
4. Edmonson DG, Witt B, Probst C, Schlumberger W, Stöcker W, Norris SJ, Komorowski L. **Passive immunization using polyclonal or monoclonal anti-dimeric OspC antibodies prevents infection with Borrelia burgdorferi B31 in mice.** 14. ICLB, Wien, Austria (2015).
5. Gerlach S, Affeldt K, Pototzki L, Krause C, Voigt J, Fraune J, Stöcker W, Fechner K. **Automated evaluation of Crithidia luciliae IFT as novel application of the "EUROPattern-Suite".** 12. Dresden Symposium on Autoantibodies, Dresden, Germany (2015).
6. Gerlach S, Hochstrate N, Affeldt K, Viertel V, Krause C, Voigt J, Fraune J, Stöcker W, Fechner K. **Automated immunofluorescence microscopy for instant screening and confirmation of ANCA.** 12. Dresden Symposium on Autoantibodies, Dresden, Germany (2015).
7. Kaden J, Herbst V, Block M, Scherberich J, Abendroth D, Nockher A, Schlumberger W. **Uromodulin serum levels in kidney graft donors and recipients.** 24. Annual Meeting of the German Transplantation Society, Dresden, Germany (2015).
8. Kaden J, Herbst V, Block M, Schlumberger W. **Serum uromodulin level and early kidney graft function.** 17. Congress of the European Society for Organ Transplantation, Brüssel, Belgium (2015).
9. Komorowski L, Scharf M, Teegen B, Rentzsch K, Schlumberger W, Stöcker W. **Autoantibodies against tubular basement membrane in progressive systemic sclerosis are directed against Scl-70.** 12. Dresden Symposium on Autoantibodies, Dresden, Germany (2015).
10. Miske R, Rosenkranz T, Müller M, Hahn S, Blöcker IM, Mindorf S, Denno Y, Schlumberger W, Stöcker W, Probst C, Terborg C, Komorowski L. **Autoantibodies against glutamate receptor delta2 in a Caucasian patient after allogeneic stem cell transplantation.** 1. Congress of the European Academy of Neurology, EAN, Berlin, Germany (2015).
11. Miske R, Melzer N, Scharf M, Wiendl H, Meuth S, Synofzik M, Dettmann IM, Mindorf S, Denno Y, Teegen B, Stöcker W, Brakopp S, Probst C, Komorowski L. **Neurochondrin is a target for autoantibodies in a unique form of autoimmune cerebellitis associated with brainstem syndrome.** 12. Dresden Symposium on Autoantibodies, Dresden, Germany (2015).
12. Seismann H, Bantleon F, Wolf S, Weimann A, Suer W, Jakob T, Bilo B, Spillner E. **Component resolution for improved diagnostics of hymenoptera venom allergy using a set of recombinant vespula and polistes venom allergens.** European Academy of Allergy and Clinical Immunology Congress 2015, EAACI, Barcelona, Spain (2015).
13. Stöcker W, Probst C, Teegen B, Rentzsch K, Schlumberger W, Fraune J, Komorowski L. **Multiparameter autoantibody screening in the diagnosis of neurological autoimmune diseases.** 1. Congress of the European Academy of Neurology, EAN, Berlin, Germany (2015).

14. Ullmann AJ, Brandt KS, Zachary PW, Dolan MC, Gilmore R, Witt B, Stöcker W, Schlumberger W, Probst C, Komorowski L. **N-terminally disulfide-bridged dimeric OspC is a promising candidate for a practical Lyme vaccine.** 14. ICLB, Wien, Austria (2015).

## Lectures

1. Gospos A. **Anti-phospholipase A2 receptor – a breakthrough of serological marker for primary membranous nephropathy.** All about Autoantibodies!, The Academy of Clinical Science and Laboratory Medicine, Dublin, Ireland (2015).
2. Gospos A. **Neuronal autoantibodies and clinical significance.** The Academy of Clinical Science and Laboratory Medicine: “All about Autoantibodies!”, Dublin, Ireland (2015).
3. Heick SB. **Cutting-edge molecular diagnostics of genetic and infectious diseases.** 8. International & 13. National Congress on Quality Improvement in Clinical Laboratories, Tehran, Iran (2015).
4. Komorowski L. **Neurochondrin is a target for autoantibodies in a unique form of autoimmune cerebellitis associated with brainstem syndrome.** 12. Dresden Symposium on Autoantibodies, Dresden, Germany (2015).
5. Schlumberger W. **Algorithm of coeliac disease investigation.** 40. Arab Health Congress/ Medlab, Dubai, United Arab Emirates (2015).
6. Schlumberger W. **Novel markers in autoimmunity: Kidney and neurological diseases.** 40. Arab Health Congress/ Medlab, Dubai, United Arab Emirates (2015).
7. Schlumberger W. **Autoantibodies against phospholipase-A2 receptors in membranous nephropathy.** Seminar, Unità Operativa Complessa di Nefrologia, Università Cattolica (2015).
8. Stöcker W. **Comprehensive diagnostics of neurology-related autoantibodies using authentic recombinant autoantigens.** All-Russia XX Conference on Neuroimmunology, Multiple Sclerosis, St. Petersburg, Russia (2015).
9. Stöcker W. **Discovery of new target antigens in autoimmune encephalitis applying histoimmune precipitation.** EUROIMMUN Autoimmunity Tripartite Forum 2015 (Tripartite: Clinic, Laboratory, and EUROIMMUN), Peking, China (2015).
10. Stöcker W. **Revealing new forms of autoimmune encephalitis associated with autoantibodies against neuron specific Na/K-ATPase ATP1A3, neurochondrin, flotillin and inositol-triphosphat-receptors.** Vortrag am Peking Union Medical College Hospital, Peking, China (2015).
11. Stöcker W. **Discovery of new target antigens in autoimmune encephalitis applying histoimmune precipitation.** 12. Dresden Symposium on Autoantibodies, Dresden, Germany (2015).

## Published Patent Applications

1. Antonini A, Lanzillotta A, Pizzi M, Spano P. **An in vitro method of diagnosing parkinson's disease.** International patent application WO 2015/110261 (filed 2015).
2. EUROIMMUN China. **Vorrichtung zur biologischen Detektion.** German patent application DE 20 2015 001 876 (filed 2015).
3. EUROIMMUN China. **Western Blot-Analysiervorrichtung.** German patent application DE 20 2015 001 878 (filed 2015).
4. Feirer C, Pannhoff H. **Kalibriernormal für eine Vorrichtung zur bildlichen Darstellung biologischen Materials.** German and International patent application DE 10 2013 021 097 (filed 2013) and WO 2015/90534 (filed 2014).



5. Hüttmann G, Morrin M, Spahr H. **Verfahren zum Abbilden eines Objektes und Optikvorrichtung**. German and International patent application DE 10 2014 002 584 (filed 2014) and WO 2015/110250 (filed 2015).
6. Komorowski L, Scharf M, Miske R, Denno Y, Dettmann IM, Probst C, Heidenreich F, Gieß R. **Diagnosis of neurological disease**. US patent application US 2015/0355177A1 (filed 2015).
7. Meyer W, Scheper T, Kaffka R. **Method for automated evaluation of incubated immunoblot strips**. Chinese patent application CN105143856A (filed 2014).
8. Rottmann N, Stöcker W. **Verfahren und Analysevorrichtung zur mikroskopischen Untersuchung eines Gewebeschnittes oder eines Zellausstrichs**. European and US patent application EP 2 872 254 (filed 2013) and US 2015/211964 (filed 2013).
9. Rottmann N, Stöcker W, Koop N. **Transparenter Objektträger mit Kennzeichnung**. European and International patent application EP 2 896 458 (filed 2014) and WO 2015/106774 (filed 2014).
10. Scharf M, Dettmann IM, Komorowski L, Miske R, Probst C, Denno Y, Heidenreich F, Gieß R. **Diagnosis of neurological disease**. European patent application EP 2 952 898 (filed 2014).
11. Stöcker W. **Verbesserte Vorrichtung und Verfahren für Reaktionen zwischen einer festen und einer flüssigen Phase**. German and International patent application DE 10 2014 001 481 (filed 2014) and WO 2015/62715 (filed 2014).
12. Stöcker W, Kowtun A, Maltzahn B, Koschinat L, Richter L. **Verfahren und Vorrichtung zur Überführung von Flüssigkeiten**. European and International patent application EP 2 959 971 (filed 2014) and WO 2015/197176 (filed 2015).

## 2014

### Publications

1. Aburizaiza AS, Mattes FM, Azhar EI, Hassan AM, Memish ZA, Muth D, Meyer B, Lattwein E, Müller MA, Drosten C. **Investigation of anti-Middle East respiratory syndrome antibodies in blood donors and slaughterhouse workers in Jeddah and Makkah, Saudi Arabia, fall 2012**. J Infect Dis 209(2): 243–246 (2014).
2. Balint B, Jarius S, Nagel S, Haberkorn U, Probst C, Blöcker IM, Bahtz R, Komorowski L, Stöcker W, Kastrup A, Kuthe M, Meinck HM. **Progressive encephalomyelitis with rigidity and myoclonus: A new variant with DPPX antibodies**. Neurology 82(17): 1521-1528 (2014).
3. Banczyk D, Kalies K, Nachbar L, Bergmann L, Schmidt P, Bode U, Teegen B, Steven P, Lange T, Textor J, Ludwig R, Stöcker W, König P, Bell E, Westermann J. **Activated CD4(+) T cells enter the splenic T-cell zone and induce autoantibody-producing germinal centers through bystander activation**. Eur J Immunol 44(1):93-102 (2014).
4. Busse S, Busse M, Brix B, Probst C, Genz A, Bogerts B, Stöcker W, Steiner J. **Seroprevalence of N-methyl-D-aspartate glutamate receptor (NMDA-R) autoantibodies in aging subjects without neuropsychiatric disorders and in dementia patients**. Eur Arch Psychiatry Clin Neurosci, 264(6): 545-550 (2014).
5. Busse S, Brix B, Kunschmann R, Bogerts B, Stoecker W, Busse M. **N-methyl-D-aspartate glutamate receptor (NMDA-R) antibodies in mild cognitive impairment and dementias**. Neurosci Res, 85: 58-64 (2014).
6. Corman VM, Jores J, Meyer B, Younan M, Liljander A, Said MY, Gluecks I, Lattwein E, Bosch BJ, Drexler JF, Bornstein S, Drosten C, Müller MA. **Antibodies against MERS coronavirus in dromedary camels, Kenya, 1992-2013**. Emerg Infect Dis 20(8): 1319-1322



(2014).

7. Dahm L, Ott C, Steiner J, Stepniak B, Teegen B, Saschenbrecker S, Hammer C, Borowski K, Begemann M, Lemke S, Rentzsch K, Probst C, Martens H, Wienands J, Spalletta G, Weissenborn K, Stöcker W, Ehrenreich H. **Seroprevalence of autoantibodies against brain antigens in health and disease.** *Annals of Neurology*, 76(1): 82-94 (2014).
8. Dammermann W, Bochmann D, Bentzien F, Komorowski L, Steinhagen K, Ullrich S, Lunzen van J, Lüth S. **CMV specific cytokine release assay in whole blood is optimized by combining synthetic CMV peptides and toll like receptor agonists.** *J Immunol Methods* 414: 82-90 (2014).
9. Doss S, Nümann A, Ziegler A, Siebert E, Borowski K, Stöcker W, Prüss H, Wildemann B, Endres M, Jarius S. **Anti-Ca/anti-ARHGAP26 antibodies associated with cerebellar atrophy and cognitive decline.** *J Neuroimmunol* 267(1-2): 102-104 (2014).
10. Doss S, Wandinger KP, Hyman B, Panzer J, Synofzik M, Dickerson B, Mollenhauer B, Scherzer CR, Iverson AJ, Finke C, Schöls L, Müller von Hagen J, Jahn H, Höltje M, Biswal BB, Harms L, Ruprecht K, Buchert R, Höglinger GU, Oertel WH, Unger MM, Priller J, Spruth EJ, Paul F, Meisel A, Lynch D, Dirnagl U, Endres M, Teegen B, Probst C, Komorowski L, Stöcker W, Dalmau J, Prüss H. **High prevalence of NMDA receptor IgA/IgM antibodies in different types of dementia.** *Ann Clin Trans Neurol* 1(10): 822-832 (2014).
11. Drosten C, Meyer B, Müller MA, Corman VM, Al-Masri M, Hossain R, Madani H, Sieberg A, Bosch JB, Lattwein E, Alhakeem RF, Assiri AM, Hajomar W, Albarrak AM, Al-Tawfiq JA, Zumla AI, Memish ZA. **Transmission of MERS-coronavirus in household contacts.** *N Engl J Med* 371(9): 828-835.
12. Finke C, Mengel A, Prüss H, Stöcker W, Meisel A, Ruprecht K. **Anti-NMDAR encephalitis mimicking HaNDL syndrome.** *Cephalalgia* 34(12): 1012-1014 (2014).
13. Hammer C, Stepniak B, Schneider A, Papiol S, Tantra M, Begemann M, Sirén A-L, Pardo LA, Sperling S, Mohd Jofrry S, Gurvich A, Jensen N, Ostmeier K, Lühder F, Probst C, Martens H, Gillis M, Saher G, Assogna F, Spalletta G, Stöcker W, Schulz TF, Nave K-A, Ehrenreich H. **Neuropsychiatric disease relevance of circulating anti-NMDA receptor autoantibodies depends on blood-brain barrier integrity.** *Mol Psychiatry* 19(10):1143-1149 (2014).
14. Jarius S, Kleffner I, Dörr JM, Sastre-Garriga J, Illes Z, Eggenberger E, Chalk C, Ringelstein M, Aktas O, Montalban X, Fechner K, Stöcker W, Ringelstein EB, Paul F, Wildemann B. **Clinical, paraclinical and serological findings in Susac syndrome: an international multicenter study.** *J Neuroinflammation* 11(1): 46 (2014).
15. Jarius S, Friedemann P, Fechner K, Ruprecht K, Kleiter I, Franciotta D, Ringelstein M, Pache F, Aktas O, Wildemann B. **Aquaporin-4 antibody testing: direct comparison of M1-AQP4-DNA-transfected cells with leaky scanning versus M23-AQP4-DNA-transfected cells as antigenic substrate.** *J Neuroinflammation* 11(1): 129 (2014).
16. Jarius S, Scharf M, Begemann N, Stöcker W, Probst C, Serysheva I, Nagel S, Graus F, Psimaras D, Wildemann B, Komorowski L. **Antibodies to the inositol 1,4,5-trisphosphate receptor, type 1 (ITPR1) associated with cerebellar ataxia.** *J Neuroimmunol* 11(1):206 (2014).
17. Langenhan J, Dworschak J, Saschenbrecker S, Komorowski L, Schlumberger W, Stöcker W, Westermann J, Recke A, Zillikens D, Schmidt E, Probst C. **Specific immunoadsorption of pathogenic autoantibodies in pemphigus requires the entire ectodomains of desmoglein.** *Exp Dermatol* 23(4): 253-259 (2014).
18. Malter MP, Frisch C, Schöne-Bake JC, Helmstädter C, Wandinger KP, Stöcker W, Urbach H, Elger CE, Vincent AV, Bien CG. **Outcome of limbic encephalitis with VGKC-complex antibodies: relation to antigenic specificity.** *J Neurol* 261(9): 1695-1705 (2014).
19. Meyer B, Müller MA, Corman VM, Reusken CB, Ritz D, Godecke GJ, Lattwein E, Kallies S, Siemens A, van Beek J, Drexler JF, Muth D, Bosch BJ, Wernery U, Koopmans MP, Wernery R, Drosten C. **Antibodies against MERS coronavirus in dromedaries, United Arab**

**Emirates, 2003 and 2013.** Emerg Infect Dis 20(4): 552-559 (2014).

20. Müller MA, Corman VM, Jores J, Meyer B, Younan M, Liljander A, Bosch BJ, Lattwein E, Hilali M, Musa BE, Bornstein S, Drosten C. **MERS coronavirus neutralizing antibodies in camels, Eastern Africa, 1983-1997.** Emerg Infect Dis 20(12): 2093-2095 (2014).
21. Müller UJ, Teegen B, Probst C, Bernstein HG, Busse S, Bogerts B, Schiltz K, Stoecker W, Steiner J. **Absence of dopamine receptor serum autoantibodies in schizophrenia patients with an acute disease episode.** Schizophr Res 158(1-3): 272-274 (2014).
22. Nühs A, Schäfer C, Zander D, Trübe L, Tejera Nevado P, Schmidt S, Arevalo J, Adai V, Maes L, Dujardin JC, Clos J. **A novel marker, ARM58, confers antimony resistance to Leishmania spp.** Int J Parasitol Drugs Drug Resist 4(1): 37-47 (2014).
23. Probst C, Saschenbrecker S, Stöcker W, Komorowski L. **Anti-neuronal autoantibodies: current diagnostic challenges.** Multiple Sclerosis and Related Disorders 3(3): 303-320 (2014).
24. Prüss H, Rothkirch M, Kopp U, Hamer HM, Hagge M, Sterzer P, Saschenbrecker S, Stöcker W, Harms L, Endres M. **Limbic encephalitis with mGluR5 antibodies and immunotherapy-responsive prosopagnosia.** Neurology, 83(15): 1384-1386 (2014).
25. Prüss H, Hoffmann C, Saschenbrecker S, Ebinger M. **A case of inflammatory peripheral nerve destruction antedating anti-NMDA receptor encephalitis.** Neurol Neuroimmunol Neuroinflamm 1(2):e14 (2014).
26. Prüßmann J, Prüßmann W, Recke A, Rentzsch K, Juhl D, Henschler R, Müller S, Lamprecht P, Schmidt E, Csernok E, Görg S, Stöcker W, Zillikens D, Ibrahim SM, Ludwig RJ. **Co-occurrence of autoantibodies in healthy blood donors.** Exp Dermatol, 23(7): 519-521 (2014).
27. Schlumberger W, Hornig N, Lange S, Probst C, Komorowski L, Fechner K, Dähnrich C, Stöcker W. **Differential diagnosis of membranous nephropathy with autoantibodies to phospholipase A2 receptor 1.** Autoimmun Rev 13(2): 108-113 (2014).
28. Steiner J, Teegen B, Schiltz K, Bernstein HG, Stoecker W, Bogerts B. **Prevalence of N-methyl-d-aspartate receptor autoantibodies in the peripheral blood: healthy control samples revisited.** JAMA Psychiatry, 71(7): 838-839 (2014).
29. Timmermans SA, Damoiseaux JG, Heerings-Rewinkel PT, Ayalon R, Beck LH Jr, Schlumberger W, Salant DJ, Paassen van P, Tervaert JW. **Evaluation of anti-PLA2R1 as measured by a novel ELISA in patients with idiopathic membranous nephropathy: a cohort study.** Am J Clin Pathol 142(1): 29-34 (2014).
30. Tobin WO, Lennon VA, Komorowski L, Probst C, Clardy SL, Aksamit AJ, Appendino JP, Lucchinetti CF, Matsumoto JY, Pittock SJ, Sandroni P, Tippmann-Peikert M, Wirrell EC, McKeon A. **DPPX potassium channel antibody: Frequency, clinical accompaniments, and outcome in 20 patients.** Neurology 83(20): 1797-1803 (2014).
31. Waters P, Reindl M, Schanda K, Tuller F, Kral V, Nytrova P, Sobek O, Nielsen HH, Illés Z, Barington T, Lillevang ST, Stöcker W, Rentzsch K, Probst C, Saschenbrecker S, Klingbeil C, Krummrei U, Berthele A, Berki T, Granieri L, Bertolotto A, Giometto B, Zuliani L, Hamann D, Saiz A, Höftberger R, Comabella M, Riu CC, Siva A, Altintas A, Deniz G, Vincent A, Leite MI, Woodhall M, Palace J, Paul F, Aktas O, Jarius S, Vedler C, Ruiz A, Marignier R. **Assessment of aquaporin-4(AQP4) antibody assays in European diagnostic centres.** J Neuroimmunol 275(1-2):15 (2014).
32. Wolf J, Hasenclever D, Petroff D, Richter T, Uhlig HH, Laaß MW, Hauer A, Stern M, Bossuyt X, de Laffolie J, Flemming G, Villalta D, Schlumberger W, Mothes T. **Antibodies in the diagnosis of coeliac disease: A biopsy-controlled, international, multicentre study of 376 children with coeliac disease and 695 controls.** PLoS One 9(5): e97853 (2014).

## Abstracts & Posters

1. Axel K, Pfeiffer T, Koerner D, Zieseniss S, Steller U. **Microarray based analysis of the genetic risk factors HLA-DQ2/DQ8 in the diagnosis of coeliac disease.** 9. International Congress on Autoimmunity, Nizza, France (2014).
2. Bahtz R, Blöcker IM, Begemann N, Denno Y, Tiede S, Teegen B, Stöcker W, Probst C, Komorowski L. **Identification of septin complex as an autoantibody target in paraneoplastic cerebellar ataxia.** 12. International Congress of Neuroimmunology (ISNI), Mainz, Germany (2014).
3. Bahtz R, Teegen B, Borowski K, Probst C, Blöcker IM, Fechner K, Parigger S, Daniel G, Brücke T, Lauenstein AS, Schrank B, Stöcker W, Komorowski L. **Autoantibodies against IgLON5: two new cases.** 12. International Congress of Neuroimmunology (ISNI), Mainz, Germany (2014).
4. Biesen R, Rose T, Klotsche J, Enghard P, Dzionek A, Ozimkowski T, Schlumberger W, Burmester GR, Alexander T, Grützkau A, Hiepe F. **A biomarker benchmark study for monitoring SLE activity: Only SIGLEC-1 and C3 are better than flipping a coin.** 42. Jahrestagung der Deutschen Gesellschaft für Rheumatologie (DGRh), Düsseldorf, Germany (2014).
5. Blöcker IM, Mindorf S, Stöcker W, Balint B, Meinck HM, Komorowski L, Probst C, Schlumberger W. **A new recombinant cell-based IFA for the determination of autoantibodies to GAD in stiff-person syndrome.** 12. International Congress of Neuroimmunology (ISNI), Mainz (2014).
6. Brix B, Golz JM, Stöcker W, Schlumberger W, Busse S. **Plaque specific autoantibodies in dementia.** 9. International Congress on Autoimmunity, Nizza, France (2014).
7. Brix B, Zeplin K, Klingbeil C, Stoops E, Vanderstichele H, Herbst V. **CSF proficiency panel for the Alzheimer's biomarker assays.** Alzheimer's Association International Conference (AAIC), Copenhagen, Denmark (2014).
8. Cavalar M, Harder M, Hellberg L, Opelka P, Götzl J, Steller U. **A new microarray-based HPV test system for the simultaneous detection and typing of 30 relevant high- and low-risk anogenital HPV.** International Papilloma Virus Conference, Seattle, USA (2014).
9. Cavalar M, Harder M, Hellberg L, Opelka P, Götzl J, Steller U. **A new microarray-based HPV test system for the simultaneous detection and typing of 30 relevant high- and low-risk anogenital HPV.** Deutscher Kongress der Laboratoriumsmedizin (DGKL), Mannheim, Germany (2014).
10. Demeyer L, Stoops E, Mauroo K, Struyfs H, Herbst V, Engelborghs S, Brix B, Vanderstichele H. **Quantification of CSF A $\beta$  1-38, together with apolipoproteins E, can improve the clinical diagnostic accuracy for Alzheimer's disease of the CSF tau and A $\beta$  assays.** Alzheimer's Association International Conference (AAIC), Copenhagen, Denmark (2014).
11. Ewers N, Schuett S, Kuhlencord A, Warnecke JM, Steinhagen K, Schlumberger W. **EUROIMMUN Dengue Virus NS1 ELISA is more sensitive than Panbio® DengueEarly ELISA for early detection of dengue virus infection.** International Meeting on Emerging Diseases and Surveillance (IMED), Wien, Austria (2014).
12. Hansson-Hamlin H, Bremer H, Lilliehook I, Lattwein E, Rönnelid J. **Antinuclear antibody specificity in dogs with immune-mediated rheumatic disease.** 24. European Congress of Veterinary Internal Medicine (ECVIM), Mainz, Germany (2014).
13. Herbst V, Zeplin K, Stoops E, Vanderstichele H, Brix B. **Automation of amyloid ELISAs brings Alzheimer's biomarker standardisation one step further.** Alzheimer's Association International Conference (AAIC), Copenhagen, Denmark (2014).
14. Komorowski L, Rentzsch K, Saschenbrecker S, Teegen B, Probst C, Stöcker W. **Multiplex testing of anti-neuronal autoantibodies.** American Academy of Neurology (AAN) 66. Annual Meeting, Philadelphia, USA (2014).

15. Lattwein E, Lipkowski M, Rohwäder E, Fechner K. **Effizientes Gesundheitsmonitoring von Labormäusen gemäß FELASA-Empfehlung mittels Immunfluoreszenztest-Mosaiken.** 33. Jahrestagung des Arbeitskreises für Veterinärmedizinische Infektionsdiagnostik (AVID), Kloster Banz, Germany (2014).
16. Liljander A, Corman VM, Meyer B, Younan M, Said MY, Gluecks I, Lattwein E, Bosch BJ, Drexler JF, Bornstein S, Müller MA, Jores J, Drosten C. **Presence of Middle East Respiratory Syndrome (MERS) coronavirus antibodies in East African dromedary camels.** Tropentag 2014 „Bridging the gap between increasing knowledge and decreasing resources“, Prag, Czech Republic (2014).
17. Probst C, Blöcker IM, Mindorf S, Unger M, Fechner K, Meinck HM, Balint B, Stöcker W, Schlumberger W, Komorowski L. **Autoantibodies against glycine-associated synaptic proteins in stiff-person syndrome.** 12. International Congress of Neuroimmunology (ISNI), Mainz, Germany (2014).
18. Scharf M, Blöcker IM, Borowski K, Teegen B, Begemann N, Denno Y, Tiede S, Stöcker W, Probst C, Schlumberger W, Komorowski L. **Identification of the inositol 1,4,5-triphosphate receptor type 1 as a new autoantigen of Purkinje cells.** 12. International Congress of Neuroimmunology (ISNI), Mainz, Germany (2014).
19. Stoops E, Demeyer L, Mauroo K, Herbst V, Brix B, Coart E, Vanderstichele H. **Multi-center precision study for novel CE-labelled A $\beta$  1-40, A $\beta$  1-42 and total tau ELISAs reveals excellent precision in different labs.** Alzheimer's Association International Conference (AAIC), Kopenhagen, Denmark (2014).
20. Sutphen C, Shah AR, Jasielec MS, Xiong C, Vlassenko AG, Benzinger T, Stoops E, Vanderstichele H, Brix B, Darby H, Vandijck M, Ladenson JH, Holtzman DM, Morris JC, Fagan AM. **Longitudinal changes in cerebrospinal fluid biomarkers of Alzheimer's disease: Findings from a cognitively normal, middle-aged cohort.** Alzheimer's Association International Conference (AAIC), Kopenhagen, Denmark (2014).
21. Venkataraman I, Brix B, Stoecker W, Schlumberger W, Busse S. **Antigenic targets of autoantibodies in dementia.** Alzheimer's Association International Conference (AAIC), Kopenhagen, Denmark (2014).
22. Waters P, Reindl M, Schanda K, Kral V, Nytrova P, Sobek O, Hvilsted Nielsen H, Illés Z, Barington T, Lillevang ST, Stöcker W, Rentzsch K, Probst C, Saschenbrecker S, Klingbeil C, Krummrei U, Berthele A, Berki T, Granieri L, Bertolotto A, Giometto B, Zuliani L, Hamann D, Saiz A, Höftberger R, Comabella M, Costa Riu C, Siva A, Altintas A, Deniz G, Vincent A, Leite MI, Woodhall M, Palace J, Friedemann P, Aktas O, Jarius S, Vedeler C, Ruiz A, Marignier R. **Assessment of aquaporin-4 (AQP4) antibody assays in European diagnostic centres.** 12. International Society of Neuroimmunology (ISNI) Congress, Mainz, Germany (2014).
23. Westermann J, Denczyk E, Probst C, Komorowski L, Schlumberger W. **Non-radioactive detection of autoantibodies against acetylcholine receptors by presenting the complete epitope spectrum.** 9. International Congress on Autoimmunity, Nizza, France (2014).

## Lectures

1. Fechner K. **1. Interpretation von Ringversuchen: Wie gehe ich mit „falschen“ Ergebnissen um? 2. EUROPattern: Automatische Auswertung von IFT-Mustern für ANA, ANCA und dsDNS.** EUROIMMUN-Seminar (Fortbildung) „Indirekte Immunfluoreszenz“, Wien, Austria (2014).
2. Fechner, K. **Computer-aided immunofluorescence microscopy (CAIFM) for ANA diagnostics.** 9. International Congress on Autoimmunity, Nizza, France (2014).
3. Gospos A. **Anti-phospholipase A2 receptor – a breakthrough of serological marker for primary membranous nephropathy.** 8. Conference of the Autoantibody Network, Toronto, Canada (2014).

4. Gospos A. **Autoantibody testing for autoimmune dermatoses**. 8. Conference of the Autoantibody Network, Toronto, Canada (2014).
5. Gospos A. **Introduction of microarrays molecular testing**. 8. Conference of the Autoantibody Network, Toronto, Canada (2014).
6. Gospos A. **Neuronal autoantibodies and clinical significance**. 8. Conference of the Autoantibody Network, Toronto, Canada (2014).
7. Gospos A. **Serological testing in the differential diagnosis of chronic inflammatory bowel diseases**. 8. Conference of the Autoantibody Network, Toronto, Canada (2014).
8. Gospos A. **Testing strategy for coeliac disease**. 8. Conference of the Autoantibody Network, Toronto, Canada (2014).
9. Lattwein E, Renneker S, Steinhagen K, Müller HA, Memish ZA, Drosten C. **Von Kamelen und Menschen – Untersuchung mit den ersten kommerziellen ELISA und Immunfluoreszenztests zum Nachweis von Antikörpern gegen MERS-Coronaviren**. 33. Jahrestagung des Arbeitskreises für Veterinärmedizinische Infektionsdiagnostik (AVID), Kloster Banz, Germany (2014).
10. Lattwein E. **Investigations using the first commercial ELISA and IFT for the detection of antibodies against MERS coronavirus of camels and men**. 5. International conference of Egyptian society of virology, Hurghada, Egypt (2014).
11. Probst C. **RC IFA: The fastest way for the translation of novel antibody markers to the diagnostic lab**. 3. Translational Immunology School, Potsdam, Germany (2014).
12. Probst C. **GABA receptor antibodies in neurological diseases and their detection by recombinant cell based Immunofluorescence assay – the fastest way for the translation of novel antibody markers to the diagnostic lab**. 2. International Meeting on Nerve-driven Immunity: Neurotransmitter and Neuropeptides in the Immune System, Stockholm, Sweden (2014).
13. Schlumberger W. **1. Autoantibody diagnostics in autoimmune nephropathies. 2. The diagnostic puzzle in celiac disease**. Arab Health Congress/ Medlab, Dubai, United Arab Emirates (2014).
14. Schlumberger W. **Autoantibodies in Renal Autoimmune Diseases**. 12th International Workshop on Autoimmunity and Autoantibodies, São Paulo, Brazil (2014).
15. Schlumberger W. **Autoantikörper-Diagnostik bei autoimmunen Nephropathien**. Medica Education Conference, Düsseldorf, Germany (2014).
16. Stöcker W. **Latest achievements towards a complete automatization of indirect immunofluorescence**. 3. National Autoimmune Diagnostics Summit, Guangzhou, China (2014).
17. Stöcker W. **Diagnostik von Autoantikörpern bei Patienten mit neurologischen Erkrankungen**. Fortbildungsveranstaltung: 60 Jahre neurologische Klinik Görlitz. Görlitz, Germany (2014).

## Published Patent Applications

1. Herbst V, Nagel B. **Vorrichtung und Verfahren zur Aufbewahrung und zum Transport einer Körperflüssigkeitsprobe**. German and International patent application DE 10 2013 211 918.6 (filed 2013) and WO 2014/206531 (filed 2014).
2. Meyer W, Scheper T. **Kalibrationsstreifen für einen Immunoblot**. Chinese and European patent application CN 103 827 670 (filed 2012) and EP 2 758 783 (filed 2012).
3. Meyer W, Scheper T, Kaffka R. **Verfahren zur automatisierten Auswertung von inkubierten Blotstreifen**. German and International patent application DE 10 2013 008

468.7 (filed 2013) and WO 2014/173657 (filed 2014).

4. Scheper T., Meyer W., Langner J. **Verfahren und Vorrichtung zur Diagnose eines Nasopharynx-Karzinoms**. German and International patent application DE 10 2013 001 699.1 (filed 2013) and WO 2014/118151 (filed 2014).
5. Stöcker W, Rottmann N. **Verfahren und Analysevorrichtung zur mikroskopischen Untersuchung eines Gewebeschnittes oder eines Zellausstriches**. German and International patent application DE 10 2012 013 678 (filed 2012) and WO2014/009066 (filed 2013).
6. Stöcker W, Rottmann N. **Verfahren sowie Vorrichtung zur Inkubation von Patientenproben**. German and International patent application DE 10 2012 013 680 (filed 2012) and WO 2014/009067 (filed 2013).
7. Stöcker W, Meyer W, Scheper T, Euken A. **Testkit für die Labordiagnostik**. US patent application US 2014/0186971 (filed 2013).

## 2013

### Publications

1. Comabella M, Rentzsch K, Rio J, Bustamante MF, Borowski K, Stöcker W, Montalban X. **Treatment with interferon-beta does not induce anti-nuclear and anti-neuronal serum autoantibodies in multiple sclerosis patients**. J Neuroimmunol 255(1-2): 102-104 (2013).
2. Dähnrich C, Komorowski L, Probst C, Seitz-Polski B, Esnault V, Wetzels JF, Hofstra JM, Hoxha E, Stahl RA, Lambeau G, Stöcker W, Schlumberger W. **Development of a standardized ELISA for the determination of autoantibodies against human M-type phospholipase A2 receptor in primary membranous nephropathy**. Clin Chim Acta 421: 213-218 (2013).
3. Derksen A, Stettner M, Stöcker W, Seitz RJ. **Antiglycine receptor-related stiff limb syndrome in a patient with chronic lymphocytic leukaemia**. BMJ Case Reports 2013:bcr2013008667 (2013).
4. Finke C, Kopp UA, Scheel M, Pech LM, Soemmer C, Schlichting J, Leypoldt F, Brandt AU, Wuerfel J, Probst C, Ploner CJ, Prüss H, Paul F. **Functional and structural brain changes in anti-N-methyl-D-aspartate receptor encephalitis**. Ann Neurol, 74(2): 284-296 (2013).
5. Gosink J. **Serological coronavirus diagnostics: From SARS to MERS**. MedLab Magazine 3: 010-012 (2013).
6. Grunow B, Böhmert B, Fechner K. **Specificity of antibodies established from mammals in rainbow trout (*Oncorhynchus mykiss*)**. J Appl Ichthyol 29: 1129-1133 (2013).
7. Jarius S, Martínez-García P, Hernandez AL, Brase JC, Borowski K, Regula JU, Meinck HM, Stöcker W, Wildemann B, Wandinger KP. **Two new cases of anti-Ca (anti-ARHGAP26/ GRAF) autoantibody-associated cerebellar ataxia**. J Neuroinflammation 10: 7 (2013).
8. Komorowski L, Mockenhaupt M, Sekula P, Roujeau JC, Probst C, Teegen B, Li W, Stöcker W, Zillikens D. **Lack of a specific humoral autoreactivity in sera from patients with early erythema exsudativum multiforme majus**. J Invest Dermatol 133(12): 2799-2802 (2013).
9. Komorowski L, Teegen B, Probst C, Aulinger-Stöcker K, Sina C, Fellermann K, Stöcker W. **Autoantibodies against exocrine pancreas in Crohn's disease are directed against two antigens: the glycoproteins CUZD1 and GP2**. Journal of Crohn's and Colitis 7(10): 780-790 (2013).
10. Lederer S, Lattwein E, Hanke M, Sonnenberg K, Stöcker W, Lundkvist Å, Vaheri A, Vapalahti



- O, Chan PKS, Feldmann H, Dick D, Schmidt-Chanasit J, Padula P, Vial PA, Panculescu-Gatej R, Ceianu C, Heyman P, Avšič-Županc T, Niedrig M. **Indirect immunofluorescence assay for the simultaneous detection of antibodies against clinically important old and new world hantaviruses.** PLoS Neglected Tropical Diseases 7(4): e2157 (2013).
11. Leypoldt F, Titulaer MJ, Aguilar E, Walther J, Bönstrup M, Havemeister S, Teegen B, Lütgehetmann M, Rosenkranz M, Magnus T, Dalmau J. **Herpes simplex virus-1 encephalitis can trigger anti-NMDA receptor encephalitis: Case report.** Neurology 81(18): 1637-1639 (2013).
  12. Li J, Shen Y, He J, Jia R, Wang X, Chen X, Wang D, Han L, Zhu L, Chi X, Saschenbrecker S, Dähnrich C, Stöcker W, Schlumberger W, Li ZG. **Significance of antibodies against the native ribosomal P protein complex and recombinant P0, P1, and P2 proteins in the diagnosis of Chinese patients with systemic lupus erythematosus.** J Clin Lab Anal 27(2): 87-95 (2013).
  13. Mangler M, Trebesch de Perez I, Teegen B, Stöcker W, Prüss H, Meisel A, Schneider A, Vasiljeva J, Speiser D. **Seroprevalence of anti-N-methyl-D-aspartate receptor antibodies in women with ovarian teratoma.** J Neurol 260(11): 2831-2835 (2013).
  14. Mundiyanapurath S, Jarius S, Probst C, Stöcker W, Wildemann B, Bösel J. **GABA-B-receptor antibodies in paraneoplastic brainstem encephalitis.** J Neuroimmunol 259(1-2): 88-91(2013).
  15. Papp M, Sipeki N, Vitalis Z, Tornai T, Altorjay I, Tornai I, Udvardy M, Fechner K, Jacobsen S, Teegen B, Sumegi A, Veres G, Lakatos PL, Kappelmayer J, Antal-Szalmas P. **High prevalence of IgA class anti-neutrophil cytoplasmic antibodies (ANCA) is associated with increased risk of bacterial infection in patients with cirrhosis.** J Hepatol 59(3): 457-466 (2013).
  16. Probst C, Komorowski L, Lange S, Saschenbrecker S, Brix B, Teegen B, Rentzsch K, Stöcker W. **Paraneoplastische neurologische Syndrome.** Krebsmedizin 22(3): 140-146 (2013).
  17. Probst C, Radzimski C, Blöcker IM, Teegen B, Bogdanos DP, Stöcker W, Komorowski L. **Development of a recombinant cell-based indirect immunofluorescence assay (RC-IFA) for the determination of autoantibodies against “rings and rods”-associated inosine-5'-monophosphate dehydrogenase 2 in viral hepatitis C.** Clin Chim Acta 418: 91–96 (2013).
  18. Radzimski C, Probst C, Teegen B, Rentzsch K, Blöcker IM, Dähnrich C, Schlumberger W, Stöcker W, Bogdanos DP, Komorowski L. **Development of a recombinant cell-based indirect immunofluorescence assay for the determination of autoantibodies against soluble liver antigen in autoimmune hepatitis.** Clin Dev Immunol 2013:572815 (2013).
  19. Rateike M. **Indirekte Immunfluoreszenz.** Mensch und Technik 3: 10-11 (2013).
  20. Rose T, Grützkau A, Hirseland H, Huscher D, Dähnrich C, Dzionek A, Ozimkowski T, Schlumberger W, Enghard P, Radbruch A, Riemekasten G, Burmester GR, Hiepe F, Biesen R. **IFN $\alpha$  and its response proteins, IP-10 and SIGLEC-1, are biomarkers of disease activity in systemic lupus erythematosus.** Ann Rheum Dis 72(10): 1639-1645 (2013).
  21. Saschenbrecker S, Rentzsch K, Probst C, Komorowski L, Stöcker W. **Antineuronale Autoantikörper: Klinische Bedeutung und Nachweismethoden.** Med Welt 64: 21-29 (2013).
  22. Steiner J, Walter M, Glanz W, Sarnyai Z, Bernstein HG, Vielhaber S, Kästner A, Skalej M, Jordan W, Schiltz K, Klingbeil C, Wandinger KP, Bogerts B, Stöcker W. **Increased prevalence of diverse N-methyl-D-aspartate glutamate receptor antibodies in patients with an initial diagnosis of schizophrenia: Specific relevance of IgG NR1a antibodies for distinction from N-methyl-D-aspartate glutamate receptor encephalitis.** JAMA Psychiatry 70(3): 271-278 (2013).
  23. Stöcker W, Hornig N, Komorowski L, Probst C, Saschenbrecker S, Schlumberger W. **Kutane**

**paraneoplastische Syndrome.** Krebsmedizin 22(3): 134-139 (2013).

24. Stöcker W, Saschenbrecker S, Rentzsch K, Komorowski L, Probst C. **Autoantikörperdiagnostik in der Neurologie mittels nativer und rekombinanter Antigensubstrate.** Der Nervenarzt 84: 471-476 (2013).

## Abstracts & Posters

1. Atzeni F, Sarzi-Puttini P, Infantino M, Manfredi M, Olivito O, Benucci M, Meyer W, Ott A. **Determination of the serological profiles in anti-Ro52-positive patients with systemic autoimmune rheumatic diseases.** European Congress of Rheumatology, EULAR, Madrid, Spain (2013).
2. Axel K, Krüger C, Steller U, Pfeiffer T. **Fast microarray test directly from whole blood for determination of 4 mutations in the HFE gene associated with hereditary haemochromatosis.** 20. IFCC-EFLM European Congress of Clinical Chemistry and Laboratory Medicine und 45. Congress of the Italian Society of Clinical Biochemistry and Clinical Molecular Biology (SIBioC), Mailand, Italy (2013).
3. Ens K, Krause C, Saschenbrecker S, Rohwäder E, Fechner K, Stöcker W, Barth E, Martinetz T, Voigt J. **Automated indirect immunofluorescence evaluation of antinuclear autoantibodies on HEp-2 cells.** 20. IFCC-EFLM European Congress of Clinical Chemistry and Laboratory Medicine und 45. Congress of the Italian Society of Clinical Biochemistry and Clinical Molecular Biology (SIBioC), Mailand, Italy (2013).
4. Haven TR, Jaskowski TD, Suh-Lailam BB, Knapp D, Giles RS, Stöcker W, Tebo AE. **Autoantibody class is not restricted in N-methyl-D-aspartate receptor associated limbic encephalitis.** 26. Annual Meeting of the Association of Medical Laboratory Immunologists (AMLI), Savannah, USA (2013).
5. Hochstrate N, Krause C, Ens K, Danckwardt M, Feirer C, Rohwäder E, Hahn M, Affeldt K, Rateike M, Morrin M, Wuttig D, Fechner K, Barth E, Stöcker W, Martinetz T, Voigt J. **ANA and ANCA Diagnostics with Computer-Aided Immunofluorescence Microscopy (CAIFM).** 41. Kongress der Deutschen Gesellschaft für Rheumatologie (DGRh), Heidelberg/Mannheim, Germany (2013).
6. Hochstrate N, Rateike M, Morrin M, Voigt J, Feirer C, Wuttig D, Fechner K, Affeldt K, Stöcker W. **Computer-Aided Immunofluorescence Microscopy (CAIFM) for ANCA Diagnostics.** 16. International Vasculitis & ANCA Workshop, Paris, France (2013).
7. Jacobs D, Slaets S, Struyfs H, Winderickx J, Engelborghs S, Herbst V, Stoops E, Vanmechelen E. **A novel mTau assay for cerebrospinal fluid quantification.** AD/PD™ 2013 – The Alzheimer's & Parkinson's Conference, Florenz, Italy (2013).
8. Langenhahn J, Dworschak J, Fink D, Komorowski L, Stöcker W, Westermann J, Zillikens D, Schmidt E, Probst C. **Specific immunoabsorption of pathogenic autoantibodies in pemphigus requires the entire ectodomains of desmoglein.** International pre IID 2013 Satellite Meeting on Autoimmune Bullous Diseases, Lübeck, Germany (2013).
9. Meyer W, Probst C, Komorowski L, Ott A, Scheper T, Schlumberger W, Stöcker W, Yan H. **Preliminary report: Detection of antibodies against D-3-phosphoglycerate dehydrogenase (PGDH) in autoimmune liver diseases using a line immune assay.** 11. Dresdner Autoantikörper-Symposium, Germany (2013).
10. Probst C, Komorowski L, Meyer W, Scheper T, Ott A, Charles PJ, Danko J, Bodoky L, Chinoy H, Schlumberger W. **Evaluation of recombinant TIF1g in a line immune assay for the detection of autoantibodies in idiopathic inflammatory myopathies.** 11. Dresdner Autoantikörper-Symposium, Germany (2013).
11. Rentzsch K, Blöcker IM, Teegen B, Stöcker W, Graus F, Rogemond V, Hönnorat J, Hulsenboom ESP, Sillevs Smitt PAE, Probst C, Komorowski L. **Multi-center validation study of DNER as the target of anti-PCA-Tr autoantibodies associated with**

- paraneoplastic neurological syndrome.** 11. Dresdner Autoantikörper-Symposium, Germany (2013).
12. Stoops E, Demeyer L, Struyfs H, Slaets S, Engelborghs S, Moser A, Busse S, Jahn H, Gäbler K, Herbst V. **New generation of  $\beta$ -amyloid immunoassays for the detection of Alzheimer's disease.** AD/PD™ 2013 – The Alzheimer's & Parkinson's Conference, Florenz, Italy (2013).
  13. Voigt J, Ens K, Krause C, Rohwäder E, Saschenbrecker S, Kaiser G, Fechner K, Barth E, Martinetz T, Stöcker W. **Computer-aided immunofluorescence microscopy (CAIFM) for ANA diagnostics using HEp-2 cells.** 14. International Congress on Antiphospholipid Antibodies (APLA) und 4. Latin American Congress on Autoimmunity (LACA) in Rio de Janeiro, Brazil (2013).
  14. Voss J, Krüger C, Steller U. **Fast microarray test for the determination of factor V Leiden and factor II prothrombin mutations directly from whole blood.** 20. IFCC-EFLM European Congress of Clinical Chemistry and Laboratory Medicine und 45. Congress of the Italian Society of Clinical Biochemistry and Clinical Molecular Biology (SIBioC), Mailand, Italy (2013).
  15. Weimann A, Löwe T, Sarraß C, Hartwich P, Suer W, Schlumberger W, Stöcker W. **EUROLINE SPAC and EUROBlotOne: Automated multi-parameter component resolved allergy diagnostics.** 20. IFCC-EFLM European Congress of Clinical Chemistry and Laboratory Medicine, 45. Congress of the Italian Society of Clinical Biochemistry and Clinical Molecular Biology (SIBioC) und EAACI-WAO-Kongress, Mailand, Italy (2013).
  16. Westermann J, Denczyk E, Probst C, Komorowski L, Schlumberger W. **Autoantibodies against acetylcholine receptors: A new non-radioactive assay applying the complete epitope spectrum as antigenic target.** 11. Dresdner Autoantikörper-Symposium, Germany (2013).

## Lectures

1. Aldag J. **1. Serologische Diagnostik autoimmuner und paraneoplastischer ZNS-Erkrankungen. 2. Antikörper-Nachweis bei bullösen Autoimmundermatosen.** Fortbildungsveranstaltung synlab „Minikongress Autoantikörper“, Augsburg, Germany (2013).
2. Fechner K. **1. Update on ANA screening and differentiation. 2. Diagnostic tools for autoimmune nephropathies.** MedLab, Dubai, United Arab Emirates (2013).
3. Fechner K. **Praktische diagnostische Übungen.** Kursus für klinische Immunologie bei der Tagung der Deutschen Gesellschaft für Innere Medizin (DGIM), Wiesbaden, Germany (2013).
4. Fechner K. **Update ANA-Diagnostik: Aktuelle ACR-Empfehlungen - automatische IIFT-Mustererkennung.** Fortbildungsveranstaltung synlab „Minikongress Autoantikörper“, Augsburg, Germany (2013).
5. Komorowski L. **Autoantibody profiling in idiopathic inflammatory myopathies: Validation of the myositis antigens Mi-2a, MDA5, NXP2 and SAE1 in a line immunoassay.** 11. Dresdner Autoantikörper-Symposium, Germany (2013).
6. Probst C. **Multi-parametric recombinant cell-based indirect immunofluorescence assay (RC-IFA) for the determination of autoantibodies associated with paraneoplastic neurological syndromes.** 11. Dresdner Autoantikörper-Symposium, Germany (2013).
7. Schlumberger W. **Evaluation of a new ELISA for the determination of autoantibodies against human M-type phospholipase A2 receptor in primary membranous nephropathy.** 11. Dresdner Autoantikörper-Symposium, Germany (2013).
8. Schlumberger W. **1. Autoantibody diagnostics in autoimmune nephropathies. 2. Antibody detection in bullous autoimmune dermatoses. 3. New serologic markers for**

**the diagnosis of autoimmune and paraneoplastic diseases of the CNS.** XVII. Casomil Symposium, Kutna Hora, Czech Republic (2013).

9. Schlumberger W. **Autoantibodies against phospholipase-A2 receptors in membranous glomerulonephritis: Clinical and therapeutic implications.** 14. International Congress on Antiphospholipid Antibodies & 4. Latin American Congress on Autoimmunity, Rio de Janeiro, Brazil (2013).
10. Schlumberger W. **1. Innovative technologies: Recombinant cell-based immunofluorescence tests (RC-IFT) and designer antigens in ELISA. 2. Antibody diagnostics in autoimmune nephropathies. 3. New serologic markers for the diagnosis of autoimmune and paraneoplastic diseases of the CNS. 4. Recent trends in the diagnosis of connective tissue diseases.** EUROIMMUN Seminar im Rahmen des 47. Congresso Sociedade Brasileiro de Patologia Clinica / Medicina Laboratorial, Sao Paulo, Brazil (2013).
11. Stöcker W. **Autoantibodies against the neuronal surface antigen DPPX: markers for an emerging neurological disease entity.** 11. Dresdner Autoantikörper-Symposium, Germany (2013).
12. Stöcker W. **From discovery of a neurological autoimmune mechanism to provision of a robust diagnostic reagent.** 13. ESNI Course, Porto, Portugal (2013).

## Published Patent Applications

1. Meyer W, Scheper T. **Kalibrationsstreifen für einen Immunoblot.** International patent application WO2013/041540 (filed 2012).
2. Morrin M. **Vorrichtung und Verfahren zur automatischen Fokussierung für die Mikroskopie schwach leuchtender Substrate.** Chinese, European and US patent application CN 103 080 807 (filed 2013), EP 2 609 460 (filed 2013) and US2013/0162804 (filed 2013).
3. Probst C, Komorowski L, Blöcker I, Mindorf S, Radzimski C. **Verfahren zum spezifischen und quantitativen Nachweis von Antikörpern in einer Probe.** German and International patent application DE 10 2012 009 948 (filed 2012) and WO 2013/170855 (filed 2013).
4. Stöcker W. **Verfahren zum Nachweis von Anti-NMDA-Rezeptor-Autoantikörpern zum Einsatz in Diagnoseverfahren.** Chinese and European patent application CN 103 282 776 (filed 2013) and EP 2 649 448 (filed 2013).
5. Stöcker W. **Verfahren und Vorrichtung zur Bearbeitung von Proben biologischen Materials.** German patent application DE 10 2011 118 496 (filed 2011).
6. Stöcker W. **Diagnosekit sowie Verfahren zur Untersuchung einer menschlichen Patientenprobe auf das Vorhandensein Neuromyelitis-optica-spezifischen Antikörpern.** European and US patent application EP 2 676 138 (filed 2013) and US2013/0323754 (filed 2013).
7. Stöcker W, Meyer W, Scheper T, Euker A. **Testkit für die Labordiagnostik.** European patent application EP 2 660 602 (filed 2013).
8. Wessel S, Ahlborg F, Schaller C, Falkert M, Morrin M, Maltzahn B. **Vorrichtung zur Steuerung einer Pipettier Vorrichtung.** German patent application DE 10 2011 118 612 (filed 2011).

## Publications

1. Allering L, Jöst H, Emmerich P, Günther S, Lattwein E, Schmidt M, Seifried E, Sambri V, Hourfar K, Schmidt-Chanasit J. **Detection of Usutu virus infection in a healthy blood donor from south-west Germany, 2012.** Euro Surveill 13: 17(50) (2012).
2. Blöcker IM, Dähnrich C, Probst C, Komorowski L, Saschenbrecker S, Schlumberger W, Stöcker W, Zillikens D, Schmidt E. **Epitope mapping of BP230 leading to a novel enzyme-linked immunosorbent assay for autoantibodies in bullous pemphigoid.** Br J Dermatol 166(5): 964-970 (2012).
3. Corman VM, Müller MA, Costabel U, Timm J, Binger T, Meyer B, Kreher P, Lattwein E, Eschbach-Bludau M, Nitsche A, Bleicker T, Landt O, Schweiger B, Drexler JF, Osterhaus AD, Haagmans BL, Dittmer U, Bonin F, Wolff T, Drosten C. **Assays for laboratory confirmation of novel human coronavirus (hCoV-EMC) infections.** Euro Surveill 6:17(49) (2012).
4. Damoiseaux J, van Rijsingen M, Warnemünde N, Dähnrich C, Fechner K, Cohen Tervaert JW. **Autoantibody detection in bullous pemphigoid: Clinical evaluation of the EUROPLUS™ Dermatology Mosaic.** J Immunol Methods 382: 76-80 (2012).
5. Ergunay K, Sayiner AA, Litzba N, Lederer S, Charrel R, Kreher P, Us D, Niedrig M, Ozkul A, Hascelik G. **Multicentre evaluation of central nervous system infections due to Flavi and Phleboviruses in Turkey.** J Infect 65: 343-349 (2012).
6. Finke C, Kopp UA, Prüss H, Dalmau J, Wandinger KP, Ploner CJ. **Cognitive deficits following anti-NMDA receptor encephalitis.** J Neurol Neurosurg Psychiatry 83(2): 195-198 (2012).
7. Finke C, Prüss H, Scheel M, Ostendorf F, Harms L, Borowski K, Wandinger KP, Ploner CJ. **Anti-NMDA receptor antibodies in a case of MELAS syndrome.** J Neurol 259(3): 582-584 (2012).
8. Groth S, Vafia K, Recke A, Dähnrich C, Zillikens D, Stöcker W, Kuhn A, Schmidt E. **Antibodies to the C-terminus of laminin  $\gamma$ 1 are present in a distinct subgroup of patients with systemic and cutaneous lupus erythematosus.** Lupus 21(13): 1482-1483 (2012).
9. Gunnarsson I, Schlumberger W, Rönnelid J. **Antibodies to M-type phospholipase A2 receptor (PLA2R) and membranous lupus nephritis.** Am J Kidney Dis 59(4): 582-589 (2012).
10. Haussleiter IS, Emons B, Schaub M, Borowski K, Brüne M, Wandinger KP, Juckel G. **Investigation of antibodies against synaptic proteins in a cross-sectional cohort of psychotic patients.** Schizophr Res 140(1-3): 25825-25829 (2012).
11. Jarius S, Ruprecht K, Wildemann B, Kuempfel T, Ringelstein M, Geis C, Kleiter I, Kleinschnitz C, Berthele A, Brettschneider J, Hellwig K, Hemmer B, Linker RA, Lauda F, Mayer CA, Tumani H, Melms A, Trebst C, Stangel M, Marziniak M, Hoffmann F, Schippling S, Faiss JH, Neuhaus O, Ettrich B, Zentner C, Guthke K, Hofstadt-van Oy U, Reuss R, Pellkofer H, Ziemann U, Kern P, Wandinger KP, Bergh FT, Boettcher T, Langel S, Liebetrau M, Rommer PS, Niehaus S, Münch C, Winkelmann A, Zettl U UK, Metz I, Veauthier C, Sieb JP, Wilke C, Hartung HP, Aktas O, Paul F. **Contrasting disease patterns in seropositive and seronegative neuromyelitis optica: A multi-centre study of 175 patients.** J Neuroinflammation 9: 14 (2012).
12. Jarius S, Wandinger KP, Borowski K, Stöcker W, Wildemann B. **Antibodies to CV2/CRMP5 in neuromyelitis optica-like disease: case report and review of the literature.** Clin Neurol Neurosurg 114(4): 331-335 (2012).
13. Kasperkiewicz M, Dähnrich C, Probst C, Komorowski L, Stöcker W, Schlumberger W, Zillikens D, Rose C. **Novel assay for detecting celiac disease-associated autoantibodies**

**in dermatitis herpetiformis using deamidated gliadin-analogous fusion peptides.** J Am Acad Dermatol 66(4): 583-588 (2012).

14. Komorowski L, Müller R, Vorobyev A, Probst C, Recke A, Jonkman MF, Hashimoto T, Kim SC, Groves R, Ludwig RJ, Zillikens D, Stöcker W, Schmidt E. **Sensitive and specific assays for routine serological diagnosis of epidermolysis bullosa acquisita.** J Am Acad Dermatol 68(3): e89-95 (2012).
15. Kovacs M, Lakatos PL, Papp M, Jacobsen S, Nemes E, Polgar M, Solyom E, Bodi P, Horvath A, Muller KE, Molnar K, Szabo D, Cseh A, Dezsofi A, Arato A, Veres G. **Pancreatic autoantibodies and autoantibodies against goblet cells in pediatric patients with inflammatory bowel disease.** J Pediatr Gastroenterol Nutr 55(4): 429-435 (2012).
16. Leyboldt F, Wandinger KP, Voltz R. **Neues bei paraneoplastischen Syndromen in der Neurologie.** Akt Neurol 39: 60-73 (2012).
17. Mytilinaiou MG, Meyer W, Scheper T, Rigopoulou EI, Probst C, Koutsoumpas AL, Abeles D, Burroughs AK, Komorowski L, Vergani D, Bogdanos DP. **Diagnostic and clinical utility of antibodies against the nuclear body promyelocytic leukaemia and Sp100 antigens in patients with primary biliary cirrhosis.** Clin Chim Acta 413: 1211-1216 (2012).
18. Probst C, Ott A, Scheper T, Meyer W, Stöcker W, Komorowski. **N-terminal disulfide-bridging of Borrelia outer surface protein C increases its diagnostic and vaccine potentials.** Ticks and Tick-borne Diseases 3: 1-7 (2012).
19. Prüss H, Finke C, Höltje M, Hofmann J, Klingbeil C, Probst C, Borowski K, Ahnert-Hilger G, Harms L, Schwab JM, Ploner CJ, Komorowski L, Stöcker W, Dalmau J, Wandinger KP. **N-methyl-D-aspartate receptor antibodies in herpes simplex encephalitis.** Ann Neurol 72(6): 902-911 (2012).
20. Prüss H, Höltje M, Maier N, Gomez A, Buchert R, Harms L, Ahnert-Hilger G, Schmitz D, Terborg C, Kopp U, Klingbeil C, Probst C, Kohler S, Schwab JM, Stöcker W, Dalmau J, Wandinger KP. **IgA NMDA receptor antibodies are markers of synaptic immunity in slow cognitive impairment.** Neurology 78(22): 1743-1753 (2012).
21. Reynders MB, Miendje Deyi VY, Dahma H, Scheper T, Hanke M, Decolvenaer M, Dediste A. **Performance of individual Helicobacter pylori antigens in the immunoblot-based detection of H. pylori infection.** FEMS Immunol Med Microbiol 64: 352-363 (2012).
22. Richter T, Bossuyt X, Vermeersch P, Uhlig HH, Stern M, Hauer A, Zimmer KP, Mearin L, de Roo JHC, Dähnrich C, Mothes T. **Determination of IgG and IgA antibodies against native gliadin is not helpful in the diagnosis of coeliac disease in children up to two years old.** JPGN 55(1): 21-25 (2012).
23. Stöcker W, Schlumberger W. Alle Beiträge zu den Themen Autoimmundiagnostik und Labordiagnostik der Infektionskrankheiten. In: Gressner A, Arndt T (Hrsg.) **Lexikon der Medizinischen Laboratoriumsdiagnostik.** 2. Aufl., Springer Medizin Verlag, Heidelberg (2012).
24. Toh BH, Kyaw T, Taylor R, Pollock W, Schlumberger W. **Parietal cell antibody identified by ELISA is superior to immunofluorescence, rises with age and is associated with intrinsic factor antibody.** Autoimmunity 45(7): 527-532 (2012).
25. van Beek N, Rentzsch K, Probst C, Komorowski L, Kasperkiewicz M, Fechner K, Zillikens D, Stöcker W, Schmidt E. **Serological diagnosis of autoimmune bullous skin diseases: Prospective comparison of the BIOCHIP mosaic-based immunofluorescence technique and the conventional multi-step single test strategy.** Orphanet J Rare Dis 7: 49 (2012).
26. Voigt J, Krause C, Rohwäder E, Saschenbrecker S, Hahn M, Danckwardt M, Feirer C, Ens K, Fechner K, Barth E, Martinetz T, Stöcker W. **Automated indirect immunofluorescence evaluation of antinuclear autoantibodies on HEp-2 cells.** Clin Dev Immunol 2012:651058 (2012).



## Abstracts & Posters

1. Bahtz R, Tiede S, Probst C, Meyer W, Stöcker W, Komorowski L. **A set of autoantigens associated with paraneoplastic neurological syndrome is commonly expressed in small-cell lung cancer cell lines.** 11. Kongress der International Society of Neuroimmunology (ISNI), Boston, USA (2012).
2. Biesen R, Rose T, Dähnrich C, Dzionek A, Schlumberger W, Radbruch A, Burmester GR, Gruetzkau A, Hiepe F. **IFNA and its response proteins IP-10 and SIGLEC1 are biomarkers of present and prospective disease activity in systemic Lupus erythematosus.** 8. International Congress on Autoimmunity, Granada, Spain (2012).
3. Probst C, Teegen B, Bogdanos DP, Stöcker W, Komorowski L. **A recombinant cell-based IFA (RC-IFA) for the sensitive determination of autoantibodies against IMPDH2 ("rings and rods").** 63. Jahreskongress der American Association for the Study of Liver Diseases (AASLD), Boston, USA (2012).
4. Westermann J, Schütt A, Probst C, Schlumberger W, Stöcker W. **Autoantibodies against acetylcholine receptors in myasthenia gravis: RIA based on a new source for the epsilon containing receptor.** 8. International Congress on Autoimmunity, Granada, Spain (2012).

## Lectures

1. Fechner K. **1. An update on ANCA testing. 2. Innovative technologies: Designer antigens and RC-IFA. 3. Solutions for IFA automation.** 7. Conference of the Autoantibody Network, Mississauga, Canada (2012).
2. Fechner K. **1. RC-IFT: Neue Forschungsparameter für das Diagnostiklabor. 2. Automatisierungslösungen für die Immunfluoreszenz.** 16. Jahrestagung der IGLD, Essen, Germany (2012).
3. Fechner K. **1. Standardisierung der Immunfluoreszenz. 2. RC-IFT: Neue Forschungsparameter für das Diagnostiklabor.** EUROIMMUN-Seminar „Indirekte Immunfluoreszenz – Gegenwart und Zukunft einer Standardmethode in der Autoimmun-Diagnostik“, Innsbruck, Austria (2012).
4. Komorowski L. **Active celiac disease is associated with IgA antibodies against the exocrine pancreatic glycoproteins CUZD1 und GP2.** 8. International Congress on Autoimmunity, Granada, Spain (2012).
5. Komorowski L. **Development of test systems to identify autoantibodies against intracellular and superficial onconeural antigens: Biochemical assays for neuronal autoantibodies and their limitations.** Symposium (WKBWV/BIOGNOST/EUROIMMUN) "Autoantibodies in Neurology", Kortrijk, Belgium (2012).
6. Probst C. **Development of test systems to identify autoantibodies against intracellular and superficial onconeural antigens: Recombinant cell-based immunofluorescence assays for fast evaluation of novel autoantigens and routine diagnostics.** Symposium (WKBWV/BIOGNOST/EUROIMMUN) "Autoantibodies in Neurology", Kortrijk, Belgium (2012).
7. Rentzsch K. **Development of test systems to identify autoantibodies against intracellular and superficial onconeural antigens: Handling of novel neuronal autoantibodies in the daily laboratory practice.** Symposium (WKBWV/BIOGNOST/EUROIMMUN) "Autoantibodies in Neurology", Kortrijk, Belgium (2012).
8. Saschenbrecker S. **Development of test systems to identify autoantibodies against intracellular and superficial onconeural antigens: Recent studies on novel autoantibodies.** Symposium (WKBWV/BIOGNOST/EUROIMMUN) "Autoantibodies in

Neurology", Kortrijk, Belgium (2012).

9. Schlumberger W. 1. **New developments in the serological diagnosis of rheumatic diseases**. 2. **PLA<sub>2</sub> receptor antibodies in primary and secondary membranous nephritis**. Seminar "Lupus in de (laboratorium) praktijk", Nijmegen, Netherlands (2012).
10. Schlumberger W. **Innovative technologies: Designer Antigens and Recombinant Cell-based Immunofluorescence Assays**. 7. National Molecular and Diagnostic Microbiology Congress, Ankara, Turkey (2012).
11. Stöcker W. **Recombinant target antigens in the diagnosis of antibodies in autoimmune, infectious and allergic diseases**. EUROIMMUN China Customer Summit 2012, Siem Reap, Cambodia (2012).
12. Stöcker W. **Development of test systems to identify autoantibodies against intracellular and superficial onconeural antigens: Introduction to neuronal autoantibodies**. Symposium (WKBWV/BIOGNOST/EUROIMMUN) "Autoantibodies in Neurology", Kortrijk, Belgium (2012).

## Published Patent Applications

1. Morrin M. **Vorrichtung und Verfahren zur automatischen Fokussierung für die Mikroskopie schwach leuchtender Substrate**. German and International patent application DE 10 2010 035 104.0 (filed 2010) and WO 2012/025220 (filed 2011).
2. Stöcker W. **Verfahren zum Nachweis von Anti-NMDA-Rezeptor-Autoantikörpern zum Einsatz in Diagnoseverfahren**. German and International patent application DE 10 2010 053 432.3 (filed 2010) and WO 2012/076000 (filed 2011).
3. **Testkit für die Labordiagnostik**. German patent application DE 20 2012 004 404 (filed 2012)
4. Stöcker W, Komorowski L, Probst C, Janssen A. **Polypeptides and method for the specific detection of antibodies in patients with a Borrelia infection**. US patent application US 2012 0177680 (filed 2012).
5. Stöcker W, Ehling T. **Vorrichtung und Verfahren zur Untersuchung einer biologischen Probe**. German patent application DE 10 2011 011 795.4 (filed 2011).
6. Stöcker W. **Diagnosekit sowie Verfahren zur Untersuchung einer menschlichen Patientenprobe auf das Vorhandensein Neuromyelitis-optica-spezifischen Antikörpern**. German and International patent application DE 10 2011 011 280.4 (filed 2011) and WO 2012/110024 (filed 2012).
7. **Objektträger**. German patent application DE 20 2011 005 278 (filed 2011)
8. **Kalibrationsstreifen für einen Immunoblot**. German patent application DE 20 2011 106 093 (filed 2011).

## 2011

### Publications

1. Barkhudarova F, Dähnrich C, Rosemann A, Schneider U, Stöcker W, Burmester GR, Egerer K, Schlumberger W, Hiepe F, Biesen R. **Diagnostic value and clinical laboratory associations of antibodies against recombinant ribosomal P0, P1, P2 proteins and their native heterocomplex in a Caucasian cohort with systemic lupus erythematosus**. Arthritis Res Ther 13(1):R20 (2011).

2. Benzel F, Erdur H, Kohler S, Frentsch M, Thiel A, Harms L, Wandinger KP, Rosche B. **Immune monitoring of Trichuris suis egg therapy in multiple sclerosis patients.** J Helminthol 15: 1-9 (2011).
3. Biesen R, Dähnrich C, Rosemann A, Barkhudarova F, Rose T, Jakob O, Bruns A, Backhaus M, Stöcker W, Burmester GR, Schlumberger W, Egerer K, Hiepe F. **Anti-dsDNA-NcX ELISA: dsDNA-loaded nucleosomes improve diagnosis and monitoring of disease activity in systemic lupus erythematosus.** Arthritis Res Ther 13(1): R26 (2011).
4. Bogdanos DP, Komorowski L. **Disease-specific autoantibodies in primary biliary cirrhosis.** Clin Chim Acta 412(7-8): 502-512 (2011).
5. Bossuyt X, op de Béeck K, Hooijkaas H, Michiels G, van de Merwe JP, Blockmans D, Verschueren P, Van den Bergh K, Schlumberger W, Westhovens R. **Antibodies to heterogeneous nuclear ribonucleoprotein H1 are directed to RNA recognition motif 3.** Rheumatology 50(3): 621-622 (2011).
6. Dörr J, Jarius S, Wildemann B, Ringelstein EB, Schwindt W, Deppe M, Wandinger KP, Promesberger J, Paul F, Kleffner I. **Das Susac-Syndrom – Eine interdisziplinäre Herausforderung.** Nervenarzt 82(10): 1250-63 (2011).
7. Ergünay K, Saygan MB, Aydoğan S, Litzba N, Sener B, Lederer S, Niedrig M, Hasçelik G, Us D. **Confirmed exposure to tick-borne encephalitis virus and probable human cases of tick-borne encephalitis in central/northern Anatolia, Turkey.** Zoonoses Public Health 58(3): 220-227 (2011).
8. Hoxha E, Harendza S, Zahner G, Panzer U, Steinmetz O, Fechner K, Helmchen U, Stahl RA. **An immunofluorescence test for phospholipase-A2-receptor antibodies and its clinical usefulness in patients with membranous glomerulonephritis.** Nephrol Dial Transplant 26(8): 2526-2532 (2011).
9. Jarius S, Jacobi C, de Seze J, Zephir H, Paul F, Franciotta D, Rommer P, Mader S, Kleiter I, Reindl M, Akman-Demir G, Seifert-Held T, Kristoferitsch W, Melms A, Wandinger KP, Wildemann B. **Frequency and syndrome specificity of antibodies to aquaporin-4 in neurological patients with rheumatic disorders.** Mult Scler 17(9): 1067-1073 (2011).
10. Jarius S, Paul F, Franciotta D, Ruprecht K, Ringelstein M, Bergamaschi R, Rommer P, Kleiter I, Stich O, Reuss R, Rauer S, Zettl UK, Wandinger KP, Melms A, Aktas O, Kristoferitsch W, Wildemann B. **Cerebrospinal fluid findings in aquaporin-4 antibody positive neuromyelitis optica: results from 211 lumbar punctures.** J Neurol Sci 306(1-2): 82-90 (2011).
11. Jarius S, Wandinger KP, Platzer S, Wildemann B. **Homology between Klebsiella pneumoniae and human aquaporin-4: no evidence for cross-reactivity in neuromyelitis optica. A study on 114 patients.** J Neurol 258(5): 929-931 (2011).
12. Jöst H, Bürck-Kammerer S, Hütter G, Lattwein E, Lederer S, Litzba N, Bock-Hensley O, Emmerich P, Günther S, Becker N, Niedrig M, Schmidt-Chanasit J. **Medical importance of Sindbis virus in south-west Germany.** J Clin Virol J Clin Virol 52(3): 278-9 (2011).
13. Kasperkiewicz M, Wandinger KP, Klingbeil C, Gneiss C, Waters P, Dalmau J, Saschenbrecker S, Borowski K, Deisenhammer F, Vincent A, Probst C, Stöcker W. **Neue serologische Marker zur Differentialdiagnose der Autoimmun-Enzephalitis / New serological markers for the differential diagnosis of autoimmune limbic encephalitis.** J Lab Med 35(6): 329-342 (2011).
14. Op de Béeck K, Van den Bergh K, Westhovens R, Verschueren P, Hooijkaas H, Van de Merwe JP, Michiels G, Schlumberger W, Blockmans D, Bossuyt X. **Antibodies to heterogeneous nuclear ribonucleoprotein H1 are directed to RNA recognition motif 3.** Rheumatology 50(3): 621-622 (2011).
15. Matsuya N, Komori M, Nomura K, Nakane S, Fukudome T, Goto H, Shiraishi H, Wandinger KP, Matsuo H, Kondo T. **Increased T-cell immunity against aquaporin-4 and proteolipid protein in neuromyelitis optica.** Int Immunol 23(9): 565-573 (2011).

16. Prüß H, Dalmau J, Arolt V, Wandinger KP. **Anti-NMDA-Rezeptor-Enzephalitis: Ein interdisziplinäres Krankheitsbild**. Nervenarzt 81(4): 396-400 (2011).
17. Sauerbrei A, Schmitt S, Scheper T, Brandstädt A, Saschenbrecker S, Motz M, Soutschek E, Wutzler P. **Seroprevalence of herpes simplex virus type 1 and type 2 in Thuringia, Germany, 1999 to 2006**. Euro Surveill 16(44): pii=200005 (2011).
18. Stahl R, Hoxha E, Fechner K. **PLA<sub>2</sub>R autoantibodies and recurrent membranous nephropathy after transplantation**. N Engl J Med 363(5): 496-498 (2011).
19. Wandinger KP, Klingbeil C, Gneiss C, Waters P, Dalmau J, Saschenbrecker S, Borowski K, Deisenhammer F, Vincent A, Probst C, Stöcker W. **Neue serologische Marker zur Differentialdiagnose der Autoimmun-Enzephalitis / New serological markers for the differential diagnosis of autoimmune limbic encephalitis**. J Lab Med 35(6): 329-342 (2011).
20. Wandinger KP, Saschenbrecker S, Steinhagen K, Scheper T, Meyer W, Bartelt U, Enders G. **Diagnosis of recent primary rubella virus infections: Significance of glycoprotein-based IgM serology, IgG avidity and immunoblot analysis**. J Virol Methods 174(1-2): 85-93 (2011).
21. Wandinger KP, Saschenbrecker S, Stöcker W, Dalmau J. **Anti-NMDA-receptor encephalitis: A severe, multistage, treatable disorder presenting with psychosis**. J Neuroimmunol 231(1-2): 86-91 (2011).

## Abstracts & Posters

1. Damoiseaux J, van Rijsingen M, Warnemünde N, Dähnrich C, Cohen Tervaert JW, Fechner K, Poblette-Gutiérrez P. **Autoantibody detection in bullous pemphigoid: comparison of sensitivity and specificity of different diagnostic techniques**. In: Conrad K et al. (Hrsg.). From prediction to prevention of autoimmune diseases: Autoantigens, Autoantibodies, Autoimmunity. Pabst Science Publishers 867 (2011).
2. Del Fabbro P, Klawe C, Stöcker W, Maschke M. **Autoimmune limbische Enzephalitis: zwei ungewöhnliche Fallberichte**. 84. Kongress der Deutschen Gesellschaft für Neurologie mit Fortbildungsakademie, Wiesbaden, Germany (2011).
3. Gunnarsson I, Schlumberger W, Rönnelid J. **PLA<sub>2</sub> receptor antibodies as serological markers of idiopathic membranous nephritis are absent in active membranous lupus nephritis**. In: Conrad K et al. (Hrsg.). From prediction to prevention of autoimmune diseases: Autoantigens, Autoantibodies, Autoimmunity. Pabst Science Publishers 232-233 (2011).
4. Hoxha E, Fechner F, Harendza S, Stahl RAK. **Influence of Retuximab therapy on autoantibodies against phospholipase A<sub>2</sub> receptor (PLA<sub>2</sub>R) in patients with membranous glomerulonephritis (MN)**. 11. International Workshop on Autoantibodies and Autoimmunity (IWAA), Shanghai, China (2011).
5. Krause C, Ens K, Voigt J, Fauer H, Fechner K, Barth E, Feirer C, Koc Y, Martinetz T, Stöcker W. **Fully automated process for indirect immunofluorescence tests (IIFT) in the diagnostics of autoimmune diseases**. 11. International Workshop on Autoantibodies and Autoimmunity (IWAA), Shanghai, China (2011).
6. Litzba N, Paweska JT, Lederer S, Lattwein E, Niedrig M. **Evaluation of the first commercial Rift Valley fever virus (RVFV) indirect immunofluorescence test**. 10. Medical Biodefence Conference, München, Germany (2011).
7. Meyer W, Scheper T, Ott A, Kühn B, Falke S, Persson Rova L, Steinhagen K, Eichhorst D, Schlumberger W, Stöcker W. **Neuroborreliosis: Detection of intrathecally produced antibodies against Borrelia in cerebrospinal fluid using the line blot immunoassay Anti-Borrelia EUROLINE-RN-AT**. 21. European Society of Clinical Microbiology and Infectious Diseases (ECCMID), Mailand, Italy (2011).

8. Meyer W, Yan H, Chen X, Ott A, Scheper T, Schlumberger W, Stöcker W. **A new line blot for parallel detection of PBC- and AIH-associated autoantibodies.** 11. International Workshop on Autoantibodies and Autoimmunity (IWAA), Shanghai, China (2011).
9. Mytilinaiou MG, Teegen B, Grammatikopoulos T, Davies ET, Rigopoulou EI, Komorowski L, Meyer W, Dähnrich C, Mieli-Vergani G, Fechner K, Vergani D, Bogdanos DP. **ANA immunofluorescence patterns and their association with reactivity to molecularly defined nuclear targets in children with type 1 autoimmune hepatitis.** In: Conrad K et al. (Hrsg.). From prediction to prevention of autoimmune diseases: Autoantigens, Autoantibodies, Autoimmunity. Pabst Science Publishers 673-675 (2011).
10. Nytrova P, Probst C, Borowski K, Teegen B, Hanke M, Wandinger KP, Horakova D, Stöcker W. **Immunofluorescence-based detection of complement C3c-binding anti-aquaporin 4 autoantibodies using native neuronal tissues in the serological diagnosis of neuromyelitis optica.** 11. International Workshop on Autoantibodies and Autoimmunity (IWAA), Shanghai, China (2011).
11. Ott A, Komorowski L, Probst C, Schlumberger W, Stöcker W, Scheper T, Meyer W. **Dimeric OspC<sub>adv</sub> – Advanced recombinant OspC antigens for the sensitive and specific detection of class IgM antibodies in early stages of Borrelia infections.** 21. European Society of Clinical Microbiology and Infectious Diseases (ECCMID), Mailand, Italy (2011).
12. Ott A, Meyer W, Roberts-Thomson P, Scheper T, Stöcker W, Schlumberger W. **Autoantibody profiling: Advantages of a multiparametric detection system in the serological diagnosis of systemic sclerosis.** 11. International Workshop on Autoantibodies and Autoimmunity (IWAA), Shanghai, China (2011).
13. Pfeiffer T, Axel K, Körner D, Zieseniss S, Steller U. **Microarray based analysis of the genetic risk factors HLA-DQ2/DQ8 – A novel test system for the diagnostic exclusion of celiac disease.** 21. European Society for Paediatric Gastroenterology, Hepatology and Nutrition (ESPGHAN), Sorrento, Italy und 11. International Workshop on Autoantibodies and Autoimmunity (IWAA), Shanghai, China (2011).
14. Pfeiffer T, Axel K, Körner D, Zieseniss S, Steller U. **Microarray based analysis of the genetic risk factors HLA-DQ2/DQ8 in the diagnosis of celiac disease.** 21. International Congress of Clinical Chemistry and Laboratory Medicine (IFCC), Berlin, Germany (2011).
15. Probst C, Blöcker IM, Stöcker W, Müller R, Schmidt E, Zillikens D, Komorowski L. **Detection of autoantibodies against collagen VII NC1 in epidermolysis bullosa acquisita by indirect immunofluorescence using a transfected human cell line.** 11. International Workshop on Autoantibodies and Autoimmunity (IWAA), Shanghai, China (2011).
16. Probst C, Blöcker IM, Stöcker W, Schmidt E, Zillikens D, Komorowski L. **Detection of autoantibodies in bullous pemphigoid, epidermolysis bullosa acquisita, and pemphigus vulgaris by indirect immunofluorescence with a BIOCHIP Mosaic.** In: Conrad K et al. (Hrsg.). From prediction to prevention of autoimmune diseases: Autoantigens, Autoantibodies, Autoimmunity. Pabst Science Publishers 709-710 (2011).
17. Probst M, Komorowski L, Stöcker W, Müller-Kunert E. **Five years of quality assessment by the Institute for Quality Assurance (IQS).** EURACHEM 8. International Workshop of Proficiency Testing in Analytical Chemistry, Microbiology and Laboratory Medicine, Istanbul, Turkey (2011).
18. Rentzsch K, Ott A, Meyer W, Saschenbrecker S, Schlumberger W, Stöcker W. **Anti-tubular basement membrane antibodies: A new pathognomonic parameter in the serological diagnosis of progressive systemic sclerosis.** In: Conrad K et al. (Hrsg.). From prediction to prevention of autoimmune diseases: Autoantigens, Autoantibodies, Autoimmunity. Pabst Science Publishers 230-231 (2011).
19. Scheper T, Ott A, Meyer W, Rosemann A, Stöcker W, Schlumberger W. **RP11 and RP155: two RNA polymerase III subunits for the sensitive and specific detection of systemic sclerosis (SSc) specific autoantibodies.** 11. International Workshop on Autoantibodies and Autoimmunity (IWAA), Shanghai, China (2011).

20. Stöcker W, Komorowski L, Probst C, Teegen B. **Serological function of Crohn's disease related autoantigen CUZD1 – new fundamental insights resulting from autoimmunity research.** 11. International Workshop on Autoantibodies and Autoimmunity (IWAA), Shanghai, China (2011).
21. Stöcker W, Rateike M, Morrin M, Voigt J, Rentzsch K, Krause C, Ens K, Fauer H, Barth E, Feirer F, Wuttig D, Fechner K, Kloth S, Martinetz T. **Computer-Aided Immunofluorescence Microscopy (CAIFM) in the diagnosis of autoimmune and infectious diseases.** In: Conrad K et al. (Hrsg.). From prediction to prevention of autoimmune diseases: Autoantigens, Autoantibodies, Autoimmunity. Pabst Science Publishers 680-682 (2011).
22. Voss J, Zieseniss S, Steller U. **Fast microarray test for determination of HLA-B\*27 alleles directly from whole blood.** 21. International Congress of Clinical Chemistry and Laboratory Medicine (2011).
23. Wandinger KP, Klingbeil C, Waters P, Dalmau J, Saschenbrecker S, Borowski K, Vincent A, Probst C, Stöcker W. **Differential diagnosis of autoimmune encephalitis using a multiparametric BIOCHIP Mosaic based on indirect immunofluorescence.** 11. International Workshop on Autoantibodies and Autoimmunity (IWAA), Shanghai, China (2011).
24. Wandinger KP, Klingbeil C, Waters P, Dalmau J, Saschenbrecker S, Borowski K, Vincent A, Probst C, Stöcker W. **Multiparametric serological testing in autoimmune encephalitis using a recombinant immunofluorescence assay and EUROTIDE technology.** In: Conrad K et al. (Hrsg.). From prediction to prevention of autoimmune diseases: Autoantigens, Autoantibodies, Autoimmunity. Pabst Science Publishers 706-708 (2011).
25. Weimann A, Suer W, Vetter K, Schnell S, Busekow A, Probst C, Schlumberger W, Stöcker W. **Component-resolved multiparameter assays for the diagnosis of birch pollen and grass pollen allergy.** 30. Kongress der European Academy of Allergy and Clinical Immunology (EAACI), Istanbul, Turkey (2011).

## Lectures

1. Fechner K. **1. Autoantikörper in der Dermatologie. 2. Automatisierungslösungen für die Immunfluoreszenz. 3. RC-IFT: Neue Forschungsparameter für das Diagnostiklabor.** EUROIMMUN-Seminar „Innovative Techniken für die IIFT“, Wien, Austria (2011).
2. Fechner K. **1. Automatisierung IIFT – Inkubation und Auswertung als vollautomatische Walk-away-Lösung. 2. Professionelle ANA-Diagnostik – Screening mittels IIFT, Bestätigung mit ELISA oder Immunblot.** Workshop „Multiplex-Autoantikörperdiagnostik mit BIOCHIP-Mosaiken“, IGLD-Symposium, Hamburg, Germany (2011).
3. Fechner K. **New concepts for automation of IIFT systems.** Seminar „Current topics in autoimmune diagnostics“, Einweihung des EUROIMMUN International Training Centre, London, Great Britain (2011).
4. Gospos A. **Anti-CCP antibodies in RA.** Rheumatologenkongress, Yaroslavl, Russland (2011).
5. Gospos A. **Innovative technologies I: Microarrays.** Seminar „Current topics in autoimmune diagnostics“, Einweihung des EUROIMMUN International Training Centre, London, Great Britain (2011).
6. Gospos A. **Serological diagnosis in CICTD.** Rheumatologenkongress, Yaroslavl, Russland (2011).
7. Komorowski L. **Designer antigens and RC-IFT in the diagnosis of autoimmune disorders.** EUROIMMUN Satellite Symposium, Shanghai, China (2011).
8. Lehmann C. **The EUROLINE System: Multiplex analysis of autoantibody profiles.** EUROIMMUN Satellite Symposium, Shanghai, China (2011).



9. Ommen G. **1. ANCA-Nachweis mit BIOCHIP-Mosaiken: Komfortable Differenzierung und sichere Identifizierung falsch-positiver Resultate. 2. Optimaler ANA-Suchtest – Die neuen Empfehlungen des American College of Rheumatology (ACR).** Workshop „Multiplex-Autoantikörperdiagnostik mit BIOCHIP-Mosaiken“, IGLD-Symposium, Hamburg, Germany (2011).
10. Schlumberger W. **1. Borreliosis. 2. Innovative technologies II: Designer antigens and cell-based assays.** Seminar „Current topics in infectious serology“, Einweihung des EUROIMMUN International Training Centre, London, Great Britain (2011).
11. Schlumberger W. **1. Microarray for HLA DQ2/DQ8 Determination: Another Piece in the Celiac Disease Puzzle. 2. Recombinant cell-based IFT: Phospholipase A2 Receptor Autoantibodies in Idiopathic Membranous Nephropathy. 3. Vitamin D: The sunshine vitamin.** XV. Casomil Symposium, Rychnov nad Kneznou, Czech Republic (2011).
12. Schlumberger W. **PLA2 receptor antibodies as serological markers of idiopathic membranous nephritis are absent in active membranous lupus nephritis.** 10. Dresden Symposium on Autoantibodies, Dresden, Germany (2011).
13. Schlüter A. **Update on ANA Diagnostics: Latest ACR Recommendation for ANA Screening - Automated IFA Pattern Recognition – Multiplex EIA for ANA Differentiation.** AMLI (Association of Medical Laboratory Immunologists), 24. Annual Meeting, San Diego, USA (2011).
14. Stöcker W, Del Fabbro P, Klawe C, Maschke K. **Autoimmune limbische Enzephalitis: zwei ungewöhnliche Fallberichte.** 84. Kongress der Deutschen Gesellschaft für Neurologie (DGN) mit Fortbildungsakademie, Wiesbaden, Germany (2011).
15. Stöcker W. **BIOCHIP-Mosaiken mit Designer-Antigene exprimierenden rekombinanten Zellen in der serologischen Diagnostik von Autoimmun- und Infektionskrankheiten.** Zelltechnik-Kongress, Lübeck, Germany (2011).
16. Stöcker W. **Latest innovations in IIFT.** EUROIMMUN Satellite Symposium, Shanghai, China (2011).
17. Stöcker W. **Physiological function of pancreatic CUZD1 and GP2, and the role of the corresponding autoantibodies in the pathomechanism of Crohn's disease.** 11. International Workshop on Autoantibodies and Autoimmunity (IWAA), Shanghai, China (2011).

## Published Patent Applications

1. Komorowski L, Probst C. **Verfahren zur Detektion von Autoantikörpern bei paraneoplastischen neurologischen Syndromen.** German patent application DE 10 2009 033 281.2 (filed 2009).

# 2010

## Publications

1. Ergünay K, Aydoğan S, Menemenligoğlu D, Şener B, Lederer S, Steinhagen K, Hasçelik G, Pinar A, Özkul A, Us D. **Investigation of West Nile virus in central nervous system infections of unknown etiology in Ankara, Turkey.** Mikrobiyol Bul 44: 255-262 (2010).
2. Hanke K, Becker MO, Brueckner CS, Meyer W, Janssen A, Schlumberger W, Hiepe F, Burmester GR, Riemekasten G. **Anticentromere-A and anticentromere-B antibodies show high concordance and similar clinical associations in patients with systemic**

**sclerosis.** J Rheum 37(12): 2548-2552 (2010).

3. Janssen A, Meyer W, Roberts-Thomson P, Scheper T, Stöcker W, Schlumberger W. **Autoantibody profiling in systemic sclerosis: Advantages of a multiparametric detection system.** Ann Rheum Dis 96(3): 692 (2010).
4. Jarius S, Franciotta D, Bergamaschi R, Wildemann B, Wandinger KP. **Immunoglobulin M antibodies to aquaporin-4 in neuromyelitis optica and related disorders.** Clin Chem Lab Med 48(5): 659-663 (2010).
5. Jarius S, Franciotta D, Paul F, Ruprecht K, Bergamaschi R, Rommer PS, Reuss R, Probst C, Kristoferitsch W, Wandinger KP, Wildemann B. **Cerebrospinal fluid antibodies to aquaporin-4 in neuromyelitis optica and related disorders: frequency, origin, and diagnostic relevance.** J Neuroinflammation 7:52 (2010).
6. Jarius S, Probst C, Borowski K, Franciotta D, Wildemann B, Stöcker W, Wandinger KP. **Standardized method for the detection of antibodies to aquaporin-4 based on a highly sensitive immunofluorescence assay employing recombinant target antigen.** J Neurol Sci 291(1-2): 52-56 (2010).
7. Jarius S, Wandinger KP, Horn S, Heuer H, Wildemann B. **A new Purkinje cell antibody (anti-Ca) associated with subacute cerebellar ataxia: immunological characterization.** J Neuroinflammation 7:21 (2010).
8. Jarius S, Warth A, Wandinger KP, Schnabel PA, Hoffmann H, Wildemann B, Muley T. **Antibodies to aquaporin-4 in non-small cell lung cancer: a study on 50 patients.** Neurol Sci 31(6):871-2 (2010).
9. Litzba N, Klade CS, Lederer S, Niedrig M. **Evaluation of serological diagnostic test systems assessing the immune response to Japanese encephalitis vaccination.** Public Library of Science, Neglected Tropical Diseases 4(11): e883 (2010).
10. Lora M, Rotman J, Ménard H, Kast D, Dähnrich C, Stöcker W, Schlumberger W. **Transition from a research-based anti-Sa ELISA to a commercial anti-Sa ELISA to monitor rheumatoid arthritis activity.** Journal of Rheumatology 37(6): 1336 (2010).
11. Prüss H, Dalmau J, Harms L, Hölte M, Ahnert-Hilger G, Borowski K, Stöcker W, Wandinger KP. **Retrospective analysis of NMDA receptor antibodies in encephalitis of unknown origin.** Neurology 75(19): 1735-1739 (2010).
12. Scheper T, Saschenbrecker S, Steinhagen K, Sauerbrei A, Suer W, Meyer W, Schlumberger W, Wandinger KP. **The glycoproteins C and G are equivalent target antigens for the determination of herpes simplex virus type 1-specific antibodies.** J Virol Meth 166(1-2): 42-47 (2010).
13. Schmidt E, Dähnrich C, Rosemann A, Probst C, Komorowski L, Saschenbrecker S, Schlumberger W, Stöcker W, Hashimoto T, Bröcker EB, Recke A, Rose C, Zillikens D. **Novel ELISA systems for antibodies to desmoglein 1 and 3: correlation of disease activity with serum autoantibody levels in individual pemphigus patients.** Exp Dermatol 19(5): 458-463 (2010).
14. Villalta D, Tonutti E, Prause C, Koletzko S, Holm Uhlig H, Vermeersch P, Bossuyt X, Stern M, Laass MW, Ellis JH, Ciclitira PJ, Richter T, Dähnrich C, Schlumberger W, Mothes T. **IgG antibodies against deamidated gliadin peptides for diagnosis of celiac disease in patients with IgA deficiency.** Clin Chem 56(3): 464-468 (2010).
15. Wandinger KP, Stangel M, Witte T, Venables P, Charles P, Jarius S, Wildemann B, Probst C, Iking-Konert C, Schneider M. **Autoantibodies against aquaporin-4 in patients with neuropsychiatric systemic lupus erythematosus and primary Sjögren's syndrome.** Arthritis Rheum 62(4): 1198-1200 (2010).

## Abstracts & Posters

1. Blöcker IM, Dähnrich C, Probst C, Komorowski L, Schlumberger W, Rose C, Zillikens D, Stöcker W, Schmidt E. **Parallel application of two new ELISA Systems: Anti-BP230 and anti-BP180-NC16A-4X provide the most sensitive serological diagnosis of bullous pemphigoid.** 36. Jahrestagung der Arbeitsgemeinschaft für Dermatologische Forschung, Lübeck, Germany (2010).
2. Blöcker IM, Dähnrich C, Probst C, Komorowski L, Schlumberger W, Rose C, Zillikens D, Stöcker W, Schmidt E. **Parallel application of two new ELISA Systems: Anti-BP230 and anti-BP180-NC16A-4X provide the most sensitive serological diagnosis of bullous pemphigoid.** 7. International Congress on Autoimmunity, Ljubljana, Slovenia (2010).
3. Blöcker IM, Probst C, Komorowski L, Ludwig R, Rose C, Stöcker W, Zillikens D, Schmidt E. **Detection of anti-BP180-NC16A and anti-BP230 by new indirect immunofluorescence test systems.** 7. International Congress on Autoimmunity, Ljubljana, Slovenia (2010).
4. Dähnrich C, Rosemann A, Probst C, Komorowski L, Schlumberger W, Stöcker W, Recke A, Rose C, Zillikens D, Schmidt E. **Sensitive and specific detection of pemphigus autoantibodies by novel ELISA based on ectodomains of desmoglein 1 and 3 expressed in HEK293.** 36. Jahrestagung der Arbeitsgemeinschaft für Dermatologische Forschung, Lübeck (2010).
5. Herbst V, Matuszek P, Meyer W, Woźniak M, Steinhagen K, Schlumberger W, Stöcker W. **Anti-borrelia antibody prevalence in dried blood spots compared to serum in a group of high risk forest workers.** 12. International Conference on Lyme Borreliosis and other Tick-Borne Diseases, Ljubljana, Slovenia (2010).
6. Hoxha E, Blöcker IM, Probst C, Komorowski L, Wandinger KP, Schlumberger W, Stöcker W, Stahl R. **Detection of PLA<sub>2</sub>R specific autoantibodies in patients with idiopathic membranous nephropathy using PLA<sub>2</sub>R producing HEK293cells.** 7. International Congress on Autoimmunity, Ljubljana, Slovenia (2010).
7. Janssen A, Teegen B, Rentzsch K, Meyer W, Scheper T, Schlumberger W, Stöcker W. **Differentiation of nucleolar immunofluorescence patterns by a new line immunoassay in the serological diagnosis of progressive systemic sclerosis.** 7. Jahrestagung der Deutschen Gesellschaft für Klinische Chemie und Laboratoriumsmedizin (DGKL), Mannheim, Germany (2010).
8. Komorowski L, Janssen A, Stöcker W, Probst C. **Dimerisation of recombinant OspC leads to an antigen with enhanced potential for active vaccination.** 12. International Conference on Lyme Borreliosis and other Tick-Borne Diseases, Ljubljana, Slovenia (2010).
9. Krause C, Ens K, Voigt J, Fauer H, Barth E, Feirer C, Koc Y, Martinetz T, Stöcker W. **Fully automated process for indirect immunofluorescence tests (IIFT) in the diagnostics of autoimmune diseases.** 7. Jahrestagung der Deutschen Gesellschaft für Klinische Chemie und Laboratoriumsmedizin (DGKL), Mannheim, Germany (2010).
10. Ménard HA, Lora M, Rotman J, Kast D, Dähnrich C, Stöcker W, Schlumberger W. **Transition from a research-based Anti-Sa ELISA to a commercial Anti-Sa ELISA to monitor rheumatoid arthritis activity.** 7. International Congress on Autoimmunity, Ljubljana, Slovenia (2010).
11. Meyer W, Scheper T, Rentzsch K, Wandinger KP, Schlumberger W, Stöcker W. **Optic neuritis caused by an infection with Borrelia burgdorferi sensu lato – a case report.** 12. International Conference on Lyme Borreliosis and other Tick-Borne Diseases, Ljubljana, Slovenia (2010).
12. Probst C, Janssen A, Meyer W, Scheper T, Schlumberger W, Stöcker W, Komorowski L. **OspC (□1-18): A designer antigen with a higher diagnostic potential than conventional recombinant OspC.** 12. International Conference on Lyme Borreliosis and other Tick-Borne Diseases, Ljubljana, Slovenia (2010).
13. Probst C, Komorowski L, Blöcker IM, Rosemann A, Dähnrich C, Schlumberger W, Stöcker W,

- Rose C, Ludwig R, Zillikens D, Schmidt E. **Detection of pemphigus autoantibodies by new ELISA and indirect immunofluorescence test systems**. 7. International Congress on Autoimmunity, Ljubljana, Slovenia (2010).
14. Rentzsch K, Maltzahn B, Adler N, Dähnrich C, Schlumberger W, Stöcker W. **Determination of antibodies against pancreas islets in diabetes mellitus using the new EUROTIDE technology**. 7. Jahrestagung der Deutschen Gesellschaft für Klinische Chemie und Laboratoriumsmedizin (DGKL), Mannheim, Germany (2010).
  15. Saschenbrecker S, Werner S, Lind-Albrecht G, Lehmann C, Dähnrich C, Schlumberger W, Langer HE. **Prognostic value of anti-Sa, anti-CCP and anti-MCV antibodies in early arthritis**. 7. International Congress on Autoimmunity, Ljubljana, Slovenia (2010).
  16. Scheper T, Oswald F, Lübcke C, Meyer W, Klatt P, Saschenbrecker S, Schäfer S, Schlumberger W, Stöcker W. **100% prevalence of antibodies against native and recombinant borrelia-specific antigens investigated in patients with erythema migrans**. 12. International Conference on Lyme Borreliosis and other Tick-Borne Diseases, Ljubljana, Slovenia (2010).
  17. Schmidt E, Probst C, Teegen B, Stöcker W, Dähnrich C, Schlumberger W, Hashimoto T, Zhu XJ, Zillikens D, Komorowski L. **ELISA for determination of autoantibodies against envoplakin and periplakin in paraneoplastic pemphigus**. 36. Jahrestagung der Arbeitsgemeinschaft für Dermatologische Forschung, Lübeck, Germany (2010).
  18. Stöcker W, Zillikens D, Probst C, Komorowski L, Blöcker IM, Schlumberger W, Dähnrich C, Rentzsch K, Fechner K, Ludwig R, Rose C, Schmidt E. **Recombinantly expressed epidermal antigens for the detection of autoantibodies in bullous pemphigoid and pemphigus vulgaris by indirect immunofluorescence**. 14. International Congress of Immunology, Kobe, Japan (2010).
  19. Wandinger KP, Dalmau J, Borowski K, Probst C, Rosemann A, Fechner K, Stöcker W. **Laboratory diagnosis and follow-up in patients with anti-NMDA-receptor encephalitis**. 7. International Congress on Autoimmunity, Ljubljana, Slovenia (2010).
  20. Wandinger KP, Dalmau J, Borowski K, Probst C, Rosemann A, Fechner K, Stöcker W. **Laboratory diagnosis and follow-up in patients with anti-NMDA-receptor encephalitis**. 20. Kongress der European Neurological Society, Berlin und Neurowoche, Mannheim, Germany (2010).
  21. Wandinger KP, Probst C, Stangel M, Witte T, Venables P, Charles P, Jarius S, Wildemann B, Komorowski L, Iking-Konert C, Stöcker W, Schneider M. **Autoantibodies against aquaporin-4 in patients with neuropsychiatric SLE and primary Sjögren's syndrome**. 7. International Congress on Autoimmunity, Ljubljana, Slovenia (2010).

## Lectures

1. Dähnrich C, Prost C, Schlumberger W, Stöcker W, Schmidt E, Hashimoto T, Zhu XJ, Zillikens D, Komorowski L. **Novel ELISA for the determination of anti-envoplakin autoantibodies in paraneoplastic pemphigus**. 7. International Congress on Autoimmunity, Ljubljana, Slovenia (2010).
2. Fechner K. **Anti-nukleäre Antikörper (ANA) – Effiziente Methoden zum Screening und zur Bestätigung bzw. Differenzierung**. EUROIMMUN-Seminar „Bewährte Testsysteme und intelligente Neuentwicklungen für Autoantikörper-Diagnostik und Infektionsserologie“, Wien, Austria (2010).
3. Fechner K. **Immunofluorescence completely automated in the near future?** 6. Ulusal Tanisal ve Molekuler Mikrobiyoloji Kongresi, Ankara, Turkey (2010).
4. Gospos A. **Innovative test systems for the serological diagnosis of systemic lupus erythematosus**. Journée Tuniso-Française sur le lupus érythémateux systémique, Monastir,

Tunisia (2010).

5. Gospos A. **Neuronal Autoantibodies**. Autoimmune diseases: An update, King Fahad Medical City, Riyadh, Saudi Arabia (2010).
6. Gospos A. **Rheumatoid arthritis: Anti-CCP, anti-Sa and more; Systemic lupus and systemic sclerosis**. Autoimmune diseases: An update, King Fahad Medical City, Riyadh, Saudi Arabia (2010).
7. Gospos A. **Rheumatoid arthritis**. I Congreso internacional de Laboratorio Clinico y Anatomia Patologica, Lima, Peru (2010).
8. Janssen A, Meyer W, Scheper T, Rosemann A, Stöcker W, Schlumberger W. **Line immunoassay using two RNA-Polymerase-III subunits for the sensitive and specific detection of Systemic sclerosis (SSc) specific autoantibodies**. 7. International Congress on Autoimmunity, Ljubljana, Slovenia (2010).
9. Lehmann C. 1. **Borreliose und FSME – neue Antigene für die serologische Diagnostik zeckenübertragener Erkrankungen**. 2. **Von der Probe zum Befund – effektiv und schnell: innovative Automatisierungs-Konzepte für IIFT, ELISA und Immunblots**. EUROIMMUN-Symposium „Innovative Testsysteme und Automatisierungskonzepte für das infektionsserologische Labor“, 7. Jahrestagung der Deutschen Gesellschaft für Klinische Chemie und Laboratoriumsmedizin (DGKL), Mannheim, Germany (2010).
10. Meyer W, Janssen A, Vencovsky J, Putova I, Becvar R, Scheper T, Komorowski L, Probst C, Stöcker W, Schlumberger W. **A new line blot immunoassay for the parallel detection of 12 systemic sclerosis (SSc) specific autoantibodies**. 7. International Congress on Autoimmunity, Ljubljana, Slovenia (2010).
11. Schlumberger W. **ACPA: Up to Date**. Tagesseminar der Cosmic Corp., Tokio, Japan (2010).
12. Schlumberger W. **Innovative Lösungen für serologische Fragestellungen – von Designer-Antigenen bis hin zu Cell-Based-Assays**. EUROIMMUN-Seminar „Bewährte Testsysteme und intelligente Neuentwicklungen für Autoantikörper-Diagnostik und Infektionsserologie“, Wien, Austria (2010).
13. Schlumberger W. **Wertigkeit der Serologie in der Zöliakie-Diagnostik**. About Immunology, Tagesseminar über moderne Serologie von Autoimmun- und Infektionskrankheiten, Luzern, Switzerland (2010).
14. Wandinger KP. **Recombinant (cell-based) immunofluorescence assays for the determination of novel autoantibodies in neurological disorders and gastrointestinal diseases**. 7. International Congress on Autoimmunity, Ljubljana, Slovenia (2010).

## Published Patent Applications

1. Komorowski L, Probst C, Janssen A, Stöcker W. **Polypeptides and methods for the specific detection of antibodies in patients with Borrelia infection**. US patent application US 2010/0150964 (filed 2009).
2. Komorowski L, Probst C, Janssen A, Stöcker W. **Polypeptide und Verfahren zur spezifischen Detektion von Antikörpern bei Patienten mit einer Borrelieninfektion**. European patent application EP 2 199 303 (filed 2008).
3. Stöcker W, Rateike M, Maltzahn B, Behring R. **Analyseverfahren und Vorrichtung für biologische Reaktionen zwischen einer flüssigen und einer festen Phase**. European patent application EP 2 191 893 (filed 2008).
4. Stöcker W, Rateike M, Maltzahn B, Behring R. **Analyzing methods and devices for biological reactions between a liquid phase and a solid phase**. US and Chinese patent application US 2010/0124750 (filed 2009) and CN 101738465 (filed 2009).



5. Probst C, Stöcker W, Schlumberger W, Dähnrich C, Komorowski L, Mothes T. **Verfahren und Immunabsorbentien zur spezifischen Detektion und Absorption Zöliakie- und Dermatitis herpetiformis-assoziiierter Antikörper**. European patent application EP 2 149 051 (filed 2008).
6. Probst C, Stöcker W, Schlumberger W, Dähnrich C, Komorowski L, Mothes T. **Methods and immune absorbents for the specific detection of celiac disease- and herpetiform dermatitis-associated antibodies**. US and Chinese patent application US 2010/0203558 (filed 2008) and CN 101688865 (filed 2008).
7. Stöcker W, Fauer H, Krause C, Barth E, Martinetz T. **Method for optimizing the automatic fluorescence pattern recognition in immunodiagnosis**. US patent application US 2010/0047811 (filed 2007).

## 2009

### Publications

1. Dähnrich C, Pares A, Caballeria L, Rosemann A, Schlumberger W, Probst C, Mytilinaïou M, Bogdanos D, Vergani D, Stöcker W, Komorowski L. **New ELISA for detecting primary biliary cirrhosis-specific antimitochondrial antibodies**. Clin Chem 55(5):978-985 (2009).
2. Damoiseaux J, Dähnrich C, Rosemann A, Probst C, Komorowski L, Stegemann CA, Egerer K, Hiepe F, van Paassen P, Stöcker W, Schlumberger W, Cohen Tervaert JW. **A novel enzyme-linked immunosorbent assay using a mixture of human native and recombinant proteinase-3 significantly improves the diagnostic potential for antineutrophil cytoplasmic antibody-associated vasculitis**. Annals of the Rheumatic Diseases 68(2): 228-233 (2009).
3. Damoiseaux J, Steller U, Buschtez M, Vaessen M, Rosemann A, van Paassen P, Stöcker W, Fechner K, Cohen Tervaert JW. **EUROPLUS™ ANCA BIOCHIP Mosaic: PR3 and MPO antigen microdots improve the laboratory diagnostics of ANCA-associated vasculitis**. J Immunol Meth 348(1-2):67-73 (2009).
4. Dörr J, Radbruch H, Bock M, Wuerfel J, Brüggemann A, Wandinger KP, Zeise D, Pfueller CF, Zipp F, Paul F. **Encephalopathy, visual disturbance and hearing loss-recognizing the symptoms of Susac syndrome**. Nat Rev Neurol 5(12):683-688 (2009).
5. Hanke K, Brückner CS, Dähnrich C, Huscher D, Becker M, Komorowski L, Meyer W, Jansen A, Backhaus M, Becker M, Kill A, Egerer K, Burmester G, Hiepe F, Schlumberger W, Riemekasten G. **Antibodies against PM/Sci-75 and PM/Sci-100 are independent markers for different subsets of systemic sclerosis patients**. Arthritis Res Ther 11(1): R22 (2009).
6. Hanke K, Dähnrich C, Brückner CS, Huscher D, Becker M, Jansen A, Meyer W, Egerer K, Hiepe F, Burmester G, Schlumberger W, Riemekasten G. **Diagnostic value of anti-topoisomerase I antibodies in a large monocentric cohort**. Arthritis Res Ther 11(1): R28 (2009).
7. Jarius S, Neumayer B, Wandinger KP, Hartmann M, Wildemann B. **Anti-endothelial serum antibodies in a patient with Susac's syndrome**. J Neurol Sci. 285(1-2):259-261 (2009).
8. Lakatos PL, Altorjay I, Szamosi T, Palatka K, Vitalis Z, Tumpek J, Sipka S, Udvardy M, Dinya T, Lakatos L, Kovacs A, Molnar T, Tulassay Z, Miheller P, Barta Z, Stöcker W, Papp J, Hungarian IBD Study Group, Papp M. **Pancreatic autoantibodies are associated with reactivity to microbial antibodies, penetrating disease behaviour, perianal disease, and extraintestinal manifestations, but not with NOD2/CARD15 or TLR4 genotype in a Hungarian IBD cohort**. Inflamm Bowel Dis 15(3): 365-374 (2009).
9. Prause C, Richter T, Koletzko S, Uhlig H, Hauer AC, Stern M, Zimmer KP, Laass M, Probst



- C, Schlumberger W, Mothes C. **New developments in serodiagnosis of childhood celiac disease: assay of antibodies against deamidated gliadin.** Annals of the New York Academy of Sciences 1173: 28-35 (2009).
10. Prause C, Ritter M, Probst C, Dähnrich C, Schlumberger W, Komorowski L, Lieske R, Richter T, Hauer AC, Stern M, Uhlig H, Laass M, Zimmer KP, Mothes C. **Antibodies against deamidated gliadin as new and accurate biomarkers of childhood coeliac disease.** Journal of Pediatric Gastroenterology and Nutrition 49(1): 52-58 (2009).
  11. Probst C, Schlumberger W, Stöcker W, Recke A, Schmidt E, Hashimoto T, Zhu XJ, Zillikens D, Komorowski L. **Development of ELISA for the specific determination of autoantibodies against envoplakin and periplakin in paraneoplastic pemphigus.** Clin Chim Acta 410(1-2): 13-18 (2009).
  12. Stöcker W, Teegen B, Probst C, Aulinger-Stöcker K, Ludwig D, Glocker MO, Komorowski L. **CUZD1 and GP2 are the exocrine pancreas autoantigens in Crohn's disease.** In: Conrad K et al. (Hrsg.). From Pathogenesis to Therapy of Autoimmune diseases: Autoantigens, Autoantibodies, Autoimmunity. Pabst Science Publishers 463-473 (2009).
  13. Teegen B, Niemann S, Probst C, Schlumberger W, Stöcker W, Komorowski L. **DNA-bound lactoferrin is the major target for anti-neutrophil perinuclear cytoplasmic antibodies in ulcerative colitis.** Ann NY Acad Sci 1173: 161-165 (2009).
  14. Villalta D, Tonutti E, Prause C, Koletzko S, Holm Uhlig H, Vermeersch P, Bossuyt X, Stern M, Laass MW, Ellis JH, Ciclitira PJ, Richter T, Dähnrich C, Schlumberger W, Mothes T. **IgG antibodies against deamidated gliadin peptides for diagnosis of celiac disease in patients with IgA deficiency.** Online-Veröffentlichung. Clin Chem (2009).
  15. Wandinger KP, Probst C, Komorowski L, Saschenbrecker S, Rosemann A, Mothes T, Zillikens D, Dalmau J, Jarius S, Schlumberger W, Stöcker W. **Novel recombinant antigenic targets for the determination of (auto)antibodies in autoimmune dermatoses, neurological disorders and gastrointestinal diseases.** In: Conrad K et al. (Hrsg.). From Pathogenesis to Therapy of Autoimmune diseases: Autoantigens, Autoantibodies, Autoimmunity. Pabst Science Publishers 179-190 (2009).

## Abstracts & Posters

1. Dähnrich C, Rosemann A, Probst C, Komorowski L, Schlumberger W, Stöcker W, Recke A, Rose C, Zillikens D, Schmidt E. **ELISA using ectodomains of desmoglein 1 and 3 expressed in HEK293 for sensitive and specific detection of pemphigus autoantibodies.** In: Conrad K et al. (Hrsg.). From Pathogenesis to Therapy of Autoimmune diseases: Autoantigens, Autoantibodies, Autoimmunity. Pabst Science Publishers 498-499 (2009).
2. Hanke K, Brückner CS, Becker M, Meyer W, Schlumberger W, Riemekasten G. **Anti-CENP-A and anti-CENP-B antibodies show high concordance and similar clinical associations in patients with systemic sclerosis despite completely different underlying protein sequences.** In: Conrad K et al. (Hrsg.). From Pathogenesis to Therapy of Autoimmune diseases: Autoantigens, Autoantibodies, Autoimmunity. Pabst Science Publishers 392-393 (2009).
3. Herbst V, Matuszek P, Hehl D, Meyer W, Wosński M, Steinhagen K, Scheper T, Schlumberger W, Stöcker W. **Anti-borrelia antibody prevalence in a group of high-risk forest workers in Poland measured with a novel native + recombinant borrelia antigen line blot.** Conference on Laboratory Diagnosis of Lyme Borreliosis, Örenäs, Sweden (2009).
4. Jarius S, Probst C, Borowski K, Franciotta D, Wildemann B, Stöcker W, Wandinger KP. **Detection of antibodies to aquaporin-4 by indirect immunofluorescence employing a standardized recombinant target antigen.** In: Conrad K et al. (Hrsg.). From Pathogenesis to Therapy of Autoimmune Diseases: Autoantigens, Autoantibodies, Autoimmunity. Pabst Science Publishers 6: 430-431 (2009).

5. Jia RL, Shen Y, Wang XJ, Chen XS, Wang DH, Han L, Li J, Zhu L, Chi XF, Dähnrich C, Stöcker W, Li ZG, Schlumberger W. **The novel Anti-dsDNA-NcX ELISA improves the serological diagnosis of SLE.** 4. Asian Congress on Autoimmunity, Singapore (2009).
6. Jia RL, Shen Y, Wang XJ, Chen XS, Wang DH, Han L, Li J, Zhu L, Chi XF, Dähnrich C, Stöcker W, Schlumberger W, Li ZG. **Antibodies against ribosomal P proteins: A novel indicator for the serological diagnosis in SLE.** 4. Asian Congress on Autoimmunity, Singapore (2009).
7. Komorowski L, Bogdanos DP, Vergani D, Stöcker W. **Gelsolin inhibits anti-filamentous actin specific antibody reaction in patients with autoimmune hepatitis.** 4. Asian Congress on Autoimmunity, Singapore (2009).
8. Komorowski L, Teegen B, Probst C, Schlumberger W, Stöcker W. **ELISA for the detection of autoantibodies against DNA-bound lactoferrin in ulcerative colitis.** In: Conrad K et al. (Hrsg.). From Pathogenesis to Therapy of Autoimmune diseases: Autoantigens, Autoantibodies, Autoimmunity. Pabst Science Publishers 474-475 (2009).
9. Lederer S, Ertek M, Uyar Y, Özkaya E, Öz A, Carhan A. **Detection of Crimean-Congo hemorrhagic fever specific IgM antibodies by IIFT using transfected human cells.** 19. Jahrestagung Gesellschaft für Virologie, Leipzig, Germany (2009).
10. Lora M, Rotman J, Ménard HA, Kast D, Daehnrich C, Stöcker W, Schlumberger W. **Comparison of the research-based Anti-Sa with the EUROIMMUN commercial Anti-Sa ELISA to monitor rheumatoid arthritis activity.** In: Conrad K et al. (Hrsg.). From Pathogenesis to Therapy of Autoimmune diseases: Autoantigens, Autoantibodies, Autoimmunity. Pabst Science Publishers 315-316 (2009).
11. Mahler M, Siegemund M, Meyer W, Petschinka M, Fritzler MJ. **Anti-PM/Scl-antibodies in systemic sclerosis: Comparison between PM1-Alpha ELISA and a line assay with recombinant PM/Scl-75c and PM/Scl-100.** In: Conrad K et al. (Hrsg.). From Pathogenesis to Therapy of Autoimmune diseases: Autoantigens, Autoantibodies, Autoimmunity. Pabst Science Publishers 398-399 (2009).
12. Mytilinaiou M, Meyer W, Janssen A, Pavlides P, Probst C, Gatselis NK, Komorowski L, Schlumberger W, Vergani D, Bogdanos DP. **Diagnostic and clinical application of a new line immunoassay that simultaneously detects the multiple nuclear dot specific antigens in primary biliary cirrhosis.** 44. Jahrestagung der European Association for the Study of the Liver, Kopenhagen, Denmark (2009).
13. Mytilinaiou M, Meyer W, Scheper T, Janssen A, Probst C, Komorowski L, Schlumberger W, Vergani D, Bogdanos DP. **A new multiparametric line immunoassay that detects multiple nuclear dot pattern associated autoantibodies in primary biliary cirrhosis.** 4. Asian Congress on Autoimmunity, Singapore (2009).
14. Probst C, Schlumberger W, Stöcker W, Schmidt E, Hashimoto T, Zhu X, Zillikens D, Komorowski L. **ELISA for the determination of autoantibodies against envoplakin and periplakin in paraneoplastic pemphigus.** 4. Asian Congress on Autoimmunity, Singapore (2009).
15. Rentzsch K, Fauer H, Voigt J, Krause C, Barth E, Feirer C, Koc Y, Martinetz T, Stöcker W. **EUROPattern: Eine Software zur Interpretation von Immunfluoreszenzmustern in der Autoimmun-Diagnostik.** 6. Jahrestagung der Deutschen Gesellschaft für Klinische Chemie und Laboratoriumsmedizin (DGKL), Leipzig, Germany (2009).
16. Steinhagen K, Prah M, Probst C, Schäfer P, Wandinger KP, Saschenbrecker S, Schlumberger W, Stöcker W. **Unterscheidung frischer von vergangenen Masern-Infektionen durch die Bestimmung der Avidität des spezifischen IgM im Serum.** 17. Jahrestagung der Deutschen Gesellschaft für Pädiatrische Infektiologie (DGPI), Bremen, Germany (2009).
17. Teegen B, Stöcker W, Bogdanos DP, Komorowski L. **High frequency of autoantibodies against lactoferrin-repleted granulocytes in ulcerative colitis and primary sclerosing cholangitis.** 4. Asian Congress on Autoimmunity, Singapore (2009).

18. Teegen B, Stöcker W, Bogdanos DP, Komorowski L. **High frequency of autoantibodies against lactoferrin-repleted granulocytes in ulcerative colitis and primary sclerosing cholangitis**. 6. Jahrestagung der Deutschen Gesellschaft für Klinische Chemie und Laboratoriumsmedizin (DGKL), Leipzig, Germany (2009).
19. Villalta D, Prause C, Tonutti E, Koletzko S, Stern M, Laass M, Uhlig HH, Ellis HJ, Ciclitira PJ, Richter T, Dähnrich C, Schlumberger W, Mothes T. **IgA-deficient celiac disease patients are reliably detected by IgG antibodies against deamidated gliadin-analogous fusion peptides (GAF-3X)**. 4. Asian Congress on Autoimmunity, Singapore (2009).
20. Villalta D, Prause C, Tonutti E, Koletzko S, Uhlig HH, Richter T, Stern M, Laaß MW, Dähnrich C, Schlumberger W, Mothes T. **IgG-Antikörper gegen deamidierte Gliadinpeptide (Anti-GAF3X) zur Detektion von Zöliakie bei Kindern mit IgA-Mangel**. 24. Jahrestagung der GPEG, Hamburg, Germany (2009).
21. Villalta D, Tonutti E, Prause C, Koletzko S, Uhlig HH, Vermeersch P, Bossuyt X, Stern M, Laass MW, Ellis HJ, Ciclitira PJ, Richter T, Daehnrich C, Schlumberger W, Mothes T. **Diagnosis of IgA-deficient coeliac disease by assay of IgG-antibodies against deamidated gliadin (GAF3X)**. 9. Dresdner Autoantikörper-Symposium, Dresden, Germany (2009).
22. Wandinger KP, Dalmau J, Borowski K, Probst C, Fechner K, Stöcker W. **Recombinant immunofluorescence assay for the detection of anti-glutamate receptor (type NMDA) antibodies in the differential diagnosis of autoimmune encephalopathies**. In: Conrad K et al. (Hrsg.). From Pathogenesis to Therapy of Autoimmune diseases: Autoantigens, Autoantibodies, Autoimmunity. Pabst Science Publishers 434-435 (2009).

## Lectures

1. Fechner K. 1. **ANCA diagnostics in a routine laboratory**. 2. **Advantages in IFA: Automation concepts**. 3. **Diabetes mellitus: Anti-GAD Antibodies**. 4. **New developments in IFA**. 43. Congresso Brasileiro de Patologia Clinica, Belo Horizonte, Brazil (2009).
2. Fechner K. 1. **Latest developments in ANCA diagnostics**. 2. **How to facilitate the ANCA diagnostic in the laboratory and the associated clinic behind**. IV. Simposio sul Brasileiro de Auto-Imunidade, Florianapolis, Brazil (2009).
3. Fechner K. 1. **Latest developments in ANCA diagnostics**. 2. **How to facilitate the ANCA diagnostic in the laboratory and the associated clinic behind**. Laboratorio Alvaro, Cascavel, Brazil (2009).
4. Fechner K. **Immunofluorescence methods in autoimmunity**. Curso doutoral introdução à investigação laboratorial, Faculdade de Ciências Médicas – Universidade Nova de Lisboa, Portugal (2009).
5. Komorowski L. **Better than nature: (inspi-)rationally designed antigens for the determination of autoantibodies by recombinant cell-based immunofluorescence assays**. 4. Asian Congress on Autoimmunity, Singapore (2009).
6. Komorowski L. **ELISA for the detection of autoantibodies against DNA-bound lactoferrin in ulcerative colitis**. 9. Dresden Symposium on Autoantibodies, Dresden, Germany (2009).
7. Komorowski L. **High frequency of autoantibodies against lactoferrin-repleted granulocytes in ulcerative colitis and primary sclerosing cholangitis**. 4. Asian Congress on Autoimmunity, Singapore (2009).
8. Meyer W. **Antibodies against Ro-52 have no disease specificity, they can be detected in various autoimmune diseases and even in viral hepatitis**. 4. Asian Congress on Autoimmunity, Singapore (2009).
9. Schlumberger W. 1. **Diagnostic strategies in ANCA-associated vasculitis**. 2. **Serological**

**diagnosis of bullous autoimmune dermatoses.** und 3. **Autoantibodies against citrullinated peptides/proteins (ACPA).** 5. Conference of Autoantibody Network, Toronto, Canada (2009).

10. Schlumberger W. **Designer antigens as diagnostic targets for autoantibody determination.** 2. International / 7. Congress on Quality Improvement in Clinical Laboratories, Teheran, Iran (2009).
11. Schlumberger W. **Designer Antigens used in ELISA for Modern Autoimmune Diagnostics.** 4. Asian Congress on Autoimmunity, Singapore (2009).
12. Schlumberger W. **ELISA using ectodomains of desmoglein 1 and 3 expressed in HEK293 for sensitive and specific detection of pemphigus autoantibodies.** 9. Dresden Symposium on Autoantibodies, Dresden, Germany (2009).
13. Schlumberger W. **Neue Zöliakiediagnostik - Antikörper gegen deamidierte Gliadin-analoge Fusionspeptide.** DELAB-Fachtagung, Mainz, Germany (2009).
14. Wandinger KP. **Detection of antibodies to aquaporin-4 by indirect immunofluorescence employing a standardized recombinant target antigen.** 9. Dresden Symposium on Autoantibodies, Dresden, Germany (2009).
15. Wandinger KP. **Recombinant immunofluorescence assay for the detection of anti-glutamate receptor (type NMDA) antibodies in the differential diagnosis of autoimmune encephalopathies.** 9. Dresden Symposium on Autoantibodies, Dresden, Germany (2009).

## Published Patent Applications

1. Stöcker W, Fauer H, Krause C, Barth E, Martinetz T. **Verfahren zur Optimierung der automatischen Fluoreszenzerkennung in der Immundiagnostik.** European patent application EP 2 030 001 (filed 2007).

# 2008

## Publications

1. Litzba N, Schuffenecker I, Zeller H, Drosten C, Emmerich P, Charrel R, Kreher P, Niedrig M. **Evaluation of the first commercial chikungunya virus indirect immunofluorescence test.** J Virol Methods 149(1): 175-179 (2008).
2. Niedrig M, Kürsteiner O, Herzog C, Sonnenberg K. **Evaluation of an indirect immuofluorescence assay for detection of IgM and IgG antibodies against yellow fever virus.** Clin Vaccine Immunol 15(2): 177-181 (2008).
3. Villalta D, Bizzaro N, Da Re M, Tozzoli R, Komorowski L, Tonutti E. **Diagnostic accuracy of four different immunological methods for the detection of anti-F-actin autoantibodies in type 1 autoimmune hepatitis and other liver-related disorders.** Autoimmunity 41(1): 105-110 (2008).
4. Wandinger KP. **Paraneoplastische neurologische Syndrome.** MTA Dialog 4: 266-270 (2008).

## Abstracts & Posters

1. Aulinger-Stöcker K, Probst C, Komorowski L, Teegen B, Torkler S, Ludwig D, Homann N, Stöcker W. **Detection of Crohn's disease specific autoantibodies against exocrine**

**pancreas by IIF using the newly identified proteoglycans CUZD1 and GP2 as recombinant target antigens.** 16. United European Gastroenterology Week (UEGW) in Wien, Austria (2008).

2. Biesen R, Dähnrich C, Rosemann A, Hiepe F, Egerer K, Stöcker W, Schlumberger W. **Anti-dsDNA-NcX ELISA: Superior to Farr-RIA and IFA using Crithidia lucillae for SLE diagnosis.** 10. International Workshop on Autoantibodies and Autoimmunity (IWAA), Guadalajara, Mexico (2008) und 7. European Lupus Meeting, Amsterdam, Netherlands. Lupus 17(5): 506-507 (2008).
3. Damoiseaux J, Dähnrich C, Rosemann A, Probst C, Komorowski L, Csernok E., Stegemann CA, Egerer K, Hiepe F, van Paassen P, Stöcker W, Schlumberger W, Cohen Tervaert JW. **The novel Anti-PR3-hn-hr ELISA using a mixture of human native and in human cells expressed authentic recombinant PR3.** 10. International Workshop on Autoantibodies and Autoimmunity (IWAA), Guadalajara, Mexico (2008).
4. Hanke K, Janssen A, Meyer W, Scheper T, Komorowski L, Brückner C, Egerer K, Hiepe F, Riemekasten G. **Prevalence of autoantibodies against PM/Scl75 and PM/Scl100 in systemic sclerosis.** 10. International Workshop on Autoantibodies and Autoimmunity (IWAA), Guadalajara, Mexico (2008).
5. Janssen A, Komorowski L, Bogdanos D, Probst C, Meyer W, Scheper T, Schlumberger W, Stöcker W. **Line immunoassay for parallel detection of 9 different autoantibodies in the serological differential diagnosis of PBC.** 10. International Workshop on Autoantibodies and Autoimmunity (IWAA), Guadalajara, Mexico (2008).
6. Janssen A, Meyer W, Scheper T, Komorowski L, Probst C, Schlumberger W, Bogdanos D, Vergani D, Stöcker W. **Analysis of specific antibody profiles in primary biliary liver cirrhosis.** 43. Jahrestagung der European Association for the Study of the Liver (EASL), Mailand, Italy (2008).
7. Kälsch A-I, Allaham F, Dähnrich C, Rosemann A, Schlumberger W, Stöcker W, Birck R, Yard BA, Schmitt WH. **A novel Anti-PR3-ELISA using a mixture of human native and authentic recombinant PR3 expressed in human cells for the follow-up of Wegener's granulomatosis.** 6. International Congress on Autoimmunity in Porto, Portugal (2008).
8. Kälsch A-I, Allaham F, Dähnrich C, Rosemann A, Schlumberger W, Stöcker W, Birck R, Yard BA, Schmitt WH. **Clinical benefits of a novel Anti-PR3-ELISA using a mixture of human native and authentic recombinant PR3 expressed in human cells for the diagnostics of Wegener's granulomatosis.** 5. Jahrestagung der Deutschen Vereinten Gesellschaft für Klinische Chemie und Laboratoriumsmedizin (DGKL), Mannheim, Germany (2008).
9. Komorowski L, Bogdanos D, Probst C, Dähnrich C, Rosemann A, Schlumberger W, Stöcker W. **Detection of PBC-associated anti-nuclear antibodies: Anti-Sp100 and Anti-gp210 ELISA.** 10. International Workshop on Autoantibodies and Autoimmunity (IWAA), Guadalajara, Mexico (2008).
10. Komorowski L, Teegen B, Aulinger-Stöcker K, Probst C, Dähnrich C, Schlumberger W, Stöcker W. **Detection of Crohn's disease associated autoantibodies against exocrine pancreas by ELISA.** 6. International Congress on Autoimmunity in Porto, Portugal und 5. Jahrestagung der Deutschen Vereinten Gesellschaft für Klinische Chemie und Laboratoriumsmedizin (DGKL), Mannheim, Germany (2008).
11. Lipkowski M, Viertel V, Steller U, Fechner K, Koriath S, Stöcker W, Rohwäder E. **Monospecific substrates coated with gp125 and p19 antigens can improve the serologic diagnosis of EBV infections by IIFT.** International Journal of Medical Microbiology 298S2 (Suppl. 45): 10 (2008).
12. Meyer W, Janssen A, Kühn B, Scheper T, Suer W, Komorowski L, Probst C, Schlumberger W, Stöcker W. **EUROLINE Borrelia RN-AT: Marriage of authentic recombinant and native borrelia antigens in a line immunoassay format.** International Journal of Medical Microbiology 298S2 (Suppl. 45): 39-40 (2008).
13. Meyer W, Janssen A, Scheper T, Schlumberger W, Stöcker W. **Lyme borreliosis:**



**Prevalence of antibodies against non-proteinic (lipid) antigens.** International Journal of Medical Microbiology 298S2 (Suppl. 45): 39 (2008).

14. Meyer W, Scheper T, Janssen A, Siegemund M, Chen S, Rosemann A, Schlumberger W, Stöcker W. **Prevalence of antibodies against Ro-52 in various rheumatic autoimmune diseases, primary biliary liver cirrhosis and autoimmune and infectious hepatitis.** Annals of Rheumatic Diseases 67 (Suppl. II): 146 (2008).
15. Prause C, Probst C, Komorowski L, Dähnrich C, Schlumberger W, Richter T, Hauer AC, Stern M, Uhlig H, Laass M, Zimmer KP, Mothes C. **The new Anti-GAF(3X) ELISA for highly reliable serologic diagnosis of childhood coeliac disease.** 10. International Workshop on Autoantibodies and Autoimmunity (IWAA), Guadalajara, Mexico (2008).
16. Prause C, Probst C, Schlumberger W, Hauer AC, Koletzko S, Laass MW, Richter T, Stern M, Uhlig H, Zimmer KP, Mothes T. **Reliable diagnosis of childhood coeliac disease based on assay of antibodies against deamidated gliadin.** 6. International Congress on Autoimmunity in Porto, Portugal (2008).
17. Prause C, Probst C, Schlumberger W, Hauer AC, Koletzko S, Laass MW, Richter T, Stern M, Uhlig HH, Zimmer K-P, Mothes T. **Anti-Gliadin(GAF-3X)-ELISA (substrate: deamidated gliadin peptides) is superior compared to conventional anti-gliadin tests in the diagnosis of childhood coeliac disease.** 5. Jahrestagung der Deutschen Vereinten Gesellschaft für Klinische Chemie und Laboratoriumsmedizin (DGKL), Mannheim, Germany (2008).
18. Prause C, Probst C, Wandinger KP, Dähnrich C, Schlumberger W, Richter T, Hauer AC, Stern M, Uhlig H, Laass MW, Zimmer KP, Mothes T. **Der neue Anti-GAF(3X)-ELISA: Zuverlässige serologische Diagnose der Zöliakie bei Kindern.** 104. Jahrestagung der Deutschen Gesellschaft für Kinder- und Jugendmedizin (DGKJ), München, Germany (2008).
19. Prause C, Schlumberger W, Koletzko S, Mothes T. **Reliable diagnosis of childhood celiac disease based on assay of antibodies against deamidated gliadin and tissue transglutaminase.** World Congress of Pediatric Gastroenterology, Hepatology and Nutrition (WCPGHAN), Foz do Iguaçu, Brazil (2008).
20. Rose C, Dähnrich C, Probst C, Komorowski L, Stöcker W, Schlumberger W, Zillikens D. **Anti-GAF(3X)-ELISA (IgG) in combination with Anti-tTG-ELISA (IgA) identifies 100% of celiac disease patients with dermatitis herpetiformis Duhring and positive intestinal biopsy (Marsh III).** 6. International Congress on Autoimmunity in Porto, Portugal (2008).
21. Rose C, Dähnrich C, Probst C, Komorowski L, Stöcker W, Schlumberger W, Zillikens D. **Anti-GAF(3X)-ELISA – a valuable tool for the reliable identification of celiac disease patients with dermatitis herpetiformis.** 5. Jahrestagung der Deutschen Vereinten Gesellschaft für Klinische Chemie und Laboratoriumsmedizin (DGKL), Mannheim, Germany (2008).
22. Stöcker W, Glocker MO, Probst C, Teegen B, Friedrich A, Sokolowski S, Komorowski L. **Identification of two different proteoglycans in the exocrine pancreas as the long sought after autoantigens in Crohn's disease: CUZD1 and GP2.** 6. International Congress on Autoimmunity in Porto, Portugal (2008).
23. Teegen B, Bornier S, Probst C, Stöcker W, Komorowski L. **DNA-bound lactoferrin is the major pANCA target in ulcerative colitis.** 6. International Congress on Autoimmunity in Porto, Portugal (2008).

## Lectures

1. Fechner K. 1. **Autoantibodies in Vasculitis: pANCA and cANCA.**; 2. **ANCA EUROPLUS, Screening plus confirmation.** und 3. **Differentiated ANCA diagnostics using BIOCHIP Mosaics - interfering patterns.** ANCA Workshops von BIOGNOST, Utrecht und Maastricht, Belgium (2008).
2. Fechner K. 1. **Autoimmune Diseases: Solutions for automation in the detection of**



**corresponding autoantibodies.** und 2. **The use of BIOCHIP Mosaics in the determination of ANA and ANCA.** XIII Congreso Venezolano de Bioanálisis, Venezuela (2008).

3. Fechner K. 1. **Designer antigens as diagnostic targets for autoantibody determination.;** 2. **Overview on new development of autoantibody tests at EUROIMMUN.** und 3. **How EUROIMMUN contributes to testing standardization.** 4. Conference of Autoantibody Network, Vancouver, BC, Canada (2008).
4. Ghirardello A, Rampudda ME, Bassi N, Zampieri S, Grypiotis P, Bendo R, Arienti S, Tonon G, Lundberg IE, Doria A. **Serological testing in myositis patients: Diagnostic accuracy of a commercial line blot assay.** 6. International Congress on Autoimmunity in Porto, Portugal (2008).
5. Komorowski L. **Anti-GAF(3X)-ELISA (IgG) in combination with Anti-tTG-ELISA (IgA) identifies 100% of celiac disease patients with dermatitis herpetiformis Duhring and positive intestinal biopsy (Marsh III).** 6. International Congress on Autoimmunity in Porto, Portugal (2008).
6. Schlumberger W. 1. **New developments in ANCA determination.** und 2. **Standardization in ANCA diagnostics.** 6. Australasian ANCA Workshop, Epping, Victoria, Australia (2008).
7. Schlumberger W. **Bestimmung von Antikörpern unter Verwendung von Designer-Antigenen (PR3-hn-hr, BP180-4X, Gliadin GAF-3X, M2-3E).** Tagesseminar über moderne Serologie von Autoimmun- und Infektionskrankheiten, Luzern, Switzerland (2008).
8. Steinhagen K, Biermann-Göcke S, Dönig M, Zein M, Wandinger KP, Schlumberger W, Stöcker W. **Mumps-spezifische Immunität etabliert sich erst 120 Tage nach MMR-Impfung! Antikörper-Bestimmung unter Verwendung von Antigenen des Impfstammes anstelle des Wildtyps.** 104. Jahrestagung der Deutschen Gesellschaft für Kinder- und Jugendmedizin (DGKJ), München, Germany (2008).
9. Teegen B. **DNA-bound lactoferrin is the major pANCA target in ulcerative colitis.** 6. International Congress on Autoimmunity in Porto, Portugal (2008).
10. Wandinger KP. **Antibody testing in diseases of the central nervous system.** 3. International Congress on Autoimmunity of the European Medical Association, Brüssel, Belgium (2008).
11. Wandinger KP. **Diagnostic approach to infectious diseases of the Central Nervous System.** XIV. International Congress of Virology, Istanbul, Turkey (2008).

## Published Patent Applications

1. Probst C, Stöcker W, Schlumberger W, Dähnrich C, Komorowski L, Mothes T. **Verfahren und Immunabsorbentien zur spezifischen Detektion und Absorption Zöliakie- und Dermatitis herpetiformis-assoziiierter Antikörper.** German and International patent application DE 10 2007 025 291 (filed 2007) and WO 2008/145084 (filed 2008).
2. Komorowski L, Stöcker W. **Serum-freies Medium für die Kultivierung von Borrelien und dessen Benutzung.** German patent application DE 10 2006 045 252.6 (filed 2006).
3. Komorowski L. **Verfahren und Reagenzien zur Diagnose entzündlicher Lebererkrankungen.** German patent application DE 10 2006 030 566.3 (filed 2006).
4. Stöcker W, Voigt JF, Berg S, Fauer H, Roznowicz R. **Netzplangesteuertes Verfahren zur Sicherstellung der Authentizität und Qualität visuell erhobener Befunde in der indirekten Immunfluoreszenz.** European and International patent application EP 1 921 552 (filed 2006) and WO 2008/058935 (filed 2007).
5. Probst C, Dähnrich C, Schlumberger W, Stöcker W, Komorowski L, Zillikens D, Sitaru C, Rose C. **Verfahren und Reagenzien zur spezifischen Detektion von Autoantikörpern bei**

**Patienten mit blasenbildenden Autoimmundermatosen.** German patent application DE 10 2006 059 574.2 (filed 2006).

6. Köhler S, Stöcker W, Komorowski L. **Diagnosis of inflammatory bowel diseases, more particularly ulcerative colitis.** US patent application US 2008/0293625 (filed 2005).

## 2007

### Publications

1. Buschtez M, Steller U, Zerbe B, Rosemann A, Schlumberger W, Stöcker W, Csernok E, Damoiseaux J, Cohen Tervaert JW. **EUROPLUS™ ANCA BIOCHIP Mosaic: PR3 and MPO antigen dots in addition to cell substrates improve the laboratory diagnostics of ANCA-associated vasculitis.** Zeitschrift für Rheumatologie 66(1): 9 (2007).
2. Chan KH, Sonnenberg K, Niedrig M, Lam SY, Pang CM, Chan KM, Ma SK, Seto WH, Peiris JSM. **Use of antibody avidity assays for diagnosis of severe acute respiratory syndrome coronavirus infection.** Clin Vaccine Immunol 14(11): 1433-1436 (2007).
3. Dähnrich C, Rosemann A, Probst C, Komorowski L, Schlumberger W, Csernok E, Hiepe F, Damoiseaux J, Stöcker W, Cohen Tervaert JW. **A novel ELISA based on a mixture of native PR3 plus recombinant PR3 expressed in human cells improves the diagnostic potential for ANCA-associated vasculitis.** Zeitschrift für Rheumatologie 66(1): 64 (2007).
4. Meyer W, Scheper T, Janssen A, Torkler S, Schlumberger W, Stöcker W. **EUROLINE Myositis-Profil: Ein neu entwickelter Linienblot zum Nachweis Myositis-assoziiierter Autoantikörper.** Zeitschrift für Rheumatologie 66(1): 98 (2007).
5. Müller MA, Paweska JT, Leman PA, Drosten C, Grywna K, Kemp A, Braack L, Sonnenberg K, Niedrig M, Swanepoel R. **Coronavirus antibodies in African bat species.** Emerg Infect Dis 13(9): 1367-1370 (2007).
6. Niedrig M, Sonnenberg K, Steinhagen K, Paweska JT. **Comparison of ELISA and immunoassays for measurement of IgG and IgM antibody to West Nile virus in human sera against virus neutralisation.** J Virol Meth 139: 103-105 (2007).
7. Sitaru C, Dähnrich C, Probst C, Komorowski L, Blöcker I, Schmidt E, Schlumberger W, Rose C, Stöcker W, Zillikens D. **Enzyme-linked immunosorbent assay using multimers of the 16<sup>th</sup> non-collagenous domain of the BP180 antigen for sensitive and specific detection of pemphigoid autoantibodies.** Exp Dermatol 16:770-777 (2007).
8. Tang JW, Rohwäder E, Chu IMT, Tsang RKY, Steinhagen K, Yeung ACM, To KF, Chan PKS. **Evaluation of Epstein-Barr virus antigen-based immunoassays for serological diagnosis of nasopharyngeal carcinoma.** J Clin Virol 40: 284-288 (2007).

### Abstracts & Posters

1. Damoiseaux J, Buschtez M, Steller U, Zerbe B, Rosemann A, Fechner K, Schlumberger W, Cohen Tervaert JW, Stöcker W. **EUROPLUS™ ANCA BIOCHIP Mosaic: MPO and PR3 antigen dots improve the detection of ANCA by indirect immunofluorescence.** In: Conrad K et al. (Hrsg.). From Etiopathogenesis to the Prediction of Autoimmune Diseases: Relevance of Autoantibodies. Pabst Science Publishers 5: 485-486 (2007).
2. Damoiseaux J, Dähnrich C, Rosemann A, Probst C, Komorowski L, Schlumberger W, Csernok E, Hiepe F, Cohen Tervaert JW. **A newly developed ELISA using a mixture of native PR3 and recombinant PR3 expressed in human cells improves the serological investigation of ANCA-associated vasculitis.** In: Conrad K et al. (Hrsg.). From

Etiopathogenesis to the Prediction of Autoimmune Diseases: Relevance of Autoantibodies. Pabst Science Publishers 5: 487-488 (2007).

3. Hanke K, Uibel S, Brückner C, Dähnrich C, Egerer K, Hiepe F, Schlumberger W, Riemekasten G. **Antibodies to CENP-B antigen identify a subgroup of systemic sclerosis patients presenting more frequently sicca syndrome and less frequently lung fibrosis, cardiac and vascular involvement – analysis of the Charité SSc cohort.** In: Conrad K et al. (Hrsg.). From Etiopathogenesis to the Prediction of Autoimmune Diseases: Relevance of Autoantibodies. Pabst Science Publishers 5: 477-478 (2007).
4. Komorowski L, Bogdanos D, Probst C, Dähnrich C, Rosemann A, Schlumberger W, Stöcker W. **Detection of primary biliary cirrhosis-associated anti-mitochondrial antibodies using an improved test system: Anti-M2/BPO ELISA.** In: Conrad K et al. (Hrsg.). From Etiopathogenesis to the Prediction of Autoimmune Diseases: Relevance of Autoantibodies. Pabst Science Publishers 5: 319-320 (2007).
5. Lehmann C, Dähnrich C, Schlumberger W, Wandinger K-P, Stöcker W. **Nicht-radioaktive SLE-Diagnostik mit dem Anti-dsDNS(NcX)-ELISA: Sensitiver als der Farr-Test, bei gleicher Spezifität.** MedReport INFODIENST 32, 31. Jahrgang (2007).
6. Meyer W, Scheper T, Janssen A, Komorowski L, Probst C, Schlumberger W, Bogdanos D, Stöcker W. **A comprehensive line immunoassay for the detection of autoantibodies in primary biliary cirrhosis (PBC).** In: Conrad K et al. (Hrsg.). From Etiopathogenesis to the Prediction of Autoimmune Diseases: Relevance of Autoantibodies. Pabst Science Publishers 5: 323-324 (2007).
7. Meyer W, Scheper T, Janssen A, Torkler S, Schlumberger W, Stöcker W. **EUROLINE Myositis Profile: A newly developed line immunoassay for the detection of myositis specific antibodies.** In: Conrad K et al. (Hrsg.). From Etiopathogenesis to the Prediction of Autoimmune Diseases: Relevance of Autoantibodies. Pabst Science Publishers 5: 612-613 (2007).
8. Meyer W, Scheper T, Janssen A, Torkler S, Schlumberger W, Stöcker W. **„EUROLINE Myositis-Profil“: Ein neu entwickelter Linienblot zum Nachweis Myositis-assoziiierter Autoantikörper.** 35. Kongress des DGRh, Hamburg, Germany (CD Kongress-Abstracts T05.29) (2007).
9. Prause C, Probst C, Dähnrich C, Schlumberger W, Stöcker W, Richter T, Hauer AC, Stern M, Uhlig H, Laass M, Zimmer KP, Mothes T. **Deamidated gliadin peptides are superior to native gliadin in ELISA for diagnosis of coeliac disease.** In: Conrad K et al. (Hrsg.). From Etiopathogenesis to the Prediction of Autoimmune Diseases: Relevance of Autoantibodies. Pabst Science Publishers 5:302-307 (2007).
10. Probst C, Dähnrich C, Komorowski L, Blöcker IM, Schmidt E, Schlumberger W, Sitaru C, Rose C, Stöcker W, Zillikens D. **Sensitive and specific detection of pemphigoid autoantibodies by an Enzyme-linked immunosorbent assay using multimers of the NC16A domain of BP180 as antigen.** In: Conrad K et al. (Hrsg.). From Etiopathogenesis to the Prediction of Autoimmune Diseases: Relevance of Autoantibodies. Pabst Science Publishers 5: 348-349 (2007).
11. Probst C, Komorowski L, Dähnrich C, Rosemann A, Schlumberger W, Wandinger KP, Mothes T, Stöcker W. **Designer antigens as diagnostic targets for (auto)antibody determination.** In: Conrad K et al. (Hrsg.). From Etiopathogenesis to the Prediction of Autoimmune Diseases: Relevance of Autoantibodies. Pabst Science Publishers 5: 619-632 (2007).
12. Scheper T, Meyer W, Klatt P, Komorowski L, Probst C, Schlumberger W, Stöcker W. **EUROLINE neuronal antigens: A newly developed line immunoassay for the detection of antibodies against neuronal antigens in paraneoplastic syndromes.** In: Conrad K et al. (Hrsg.). From Etiopathogenesis to the Prediction of Autoimmune Diseases: Relevance of Autoantibodies. Pabst Science Publishers 5: 263-264 (2007).
13. Steller U, Buschtez M, Dähnrich C, Schlumberger W, Fechner K, Proost S, Stöcker W.

**EUROPLUS™: Cell substrates in combination with specific antigen dots – competent ANA and ANCA diagnosis.** Lupus 16 (abstract supplement): 95 (2007).

14. Uibel S, Hanke K, Dähnrich C, Brückner C, Egerer K, Hiepe F, Schlumberger W, Riemekasten G. **Anti-Scl70 antibody levels correlate with skin and organ fibrosis in patients with systemic sclerosis – analysis from the Charité SSc cohort.** In: Conrad K et al. (Hrsg). From Etiopathogenesis to the Prediction of Autoimmune Diseases: Relevance of Autoantibodies. Pabst Science Publishers 5: 475-476 (2007).

## Lectures

1. EUROIMMUN AG. **Aktuelle Themen der Autoimmundiagnostik und der Infektions-Serologie.** Wissenschaftliches Fortbildungsseminar mit Vorträgen von Prof. Dr. G. Wick, Prof. Dr. N. Sepp, Prof. Dr. F. Deisenhammer, Dr. med. W. Stöcker, Prof. Dr. Gerold Stanek, Prof. DDr. R. Würzner, A. Krapf, Dr. med. Dipl. oec. med. J. Brunner, Innsbruck, Austria (2007).

## Published Patent Applications

1. Stöcker W, Fauer H, Krause C, Barth E, Martinetz T. **Verfahren zur Optimierung der automatischen Fluoreszenzmustererkennung in der Immundiagnostik.** German and International patent application DE 10 2006 027 516.0 (filed 2006) and WO 2007/140952 (filed 2007).
2. Steller U, Stöcker W. **Verfahren zur Erzeugung perfekter Macro- und Microarrays durch Kombinieren vorselektierter beschichteter Festphasen-Fragmente.** German and International patent application DE 10 2006 027 517.0 (filed 2006) und WO 2007/140889 (filed 2007).
3. Stöcker W, Wessel S, Morrin M, Müller M. **Konstante Lichtquelle für die Fluoreszenzmikroskopie.** German patent application DE 10 2006 027 518.7 (filed 2006).

## 2006

### Publications

1. Conrad K, Bachmann M, Stöcker W. **Anti-intestinal goblet cell antibodies.** In: Shoenfeld Y, Gershwin ME, Meroni PL (Hrsg.). Autoantibodies. Elsevier, 2. Aufl., 417-422 (2006).
2. Krüger C, Stöcker W. **Glutamic Acid Decarboxylase Autoantibodies.** In: Shoenfeld Y, Gershwin ME, Meroni PL (Hrsg.). Autoantibodies. Elsevier, 2. Aufl., 369-378 (2006).
3. Lederer S, Niedrig M, Kreher P, Kass S, Vapalahti O, Lundkvist Å, Chan PK, Dick D, Feldmann H, Sonnenberg K. **BIOCHIP Mosaics with 6 Hantavirus types for the reliable serological detection of Hantavirus infections.** Clin Chem Lab Med 44(9): A130-A131 (2006).
4. Pfeiffer T, Gruber R, Kuon W, Plischke H, Kirsch S, Körner D, Zieseniss S, Schattenkirchner M, Stöcker W, Steller U. **Diagnostic microarray assay for SNP-typing of the gene encoding the drug metabolising enzyme arylamine N-acetyltransferase 2 (NAT2).** Clin Chem Lab Med 44(9): A151-A152 (2006).
5. Plischke H, Kuon W, Pfeiffer T, Steller U, Kirsch S, Schattenkirchner M, Gruber R. **Validation of a novel N-acetyltransferase 2 (NAT2) SNP-microarray for patients with rheumatoid**

**arthritis as diagnose parameter.** Ann Rheum Dis 65(2): 621 (2006).

## Abstracts & Posters

1. Bogdanos D, Komorowski L, Liaskos C, Davies ET, Mieli-Vergani G, Dalekos GN, Vergani D. **A new substrate facilitates the detection of autoimmune hepatitis-specific anti-smooth muscle antibodies.** 57. Jahrestagung der American Association for the Study of Liver Diseases (AASLD), Boston, USA (2006).
2. Teegen B, Komorowski L, Bornier S, Probst C, Auweck B, Glocker MO, Stöcker W. **Identification of myeloperoxidase heavy chain as a major pANCA target autoantigen in ulcerative colitis.** In: Shoenfeld Y, Gershwin ME (Hrsg). Autoimmunity Reviews. Elsevier Verlag 305 (2006).

## Lectures

1. EUROIMMUN AG. **Wissenschaftliche Fortbildung zu aktuellen Themen der serologischen Diagnostik in den Bereichen Autoimmunität und Infektion.** Wissenschaftliches Fortbildungsseminar mit Vorträgen von Prof. Dr. H. Reiber, E. Rohwäder, N. Hansen, V. Worm, M. Eggert, Dr. med. W. Stöcker, Dr. C. Lehmann, Essen, Germany (2006).
2. Sonnenberg K. **BIOCHIP Mosaics for the serological diagnosis of zoonotic and vector-borne viral diseases.** XXXII. Türk Mikrobiyoloji Kongresi, Antalya, Turkey (2006).
3. Stöcker W. **Organspezifische Autoimmunkrankheiten und neue Technologien der Autoantikörperrnachweise.** Herbsttagung des Berufsverbands Deutscher Laborärzte (BDL), Berlin, Germany (2006).
4. Stöcker W. **The value of immunofluorescence for the diagnosis of autoimmune disease with special emphasis on tissue microarrays.** Workshop Autoimmunität, Kongress der European Academy of Allergology and Clinical Immunology, Wien (2006).
5. Teegen B, Stöcker W, Thiesen HJ, Komorowski L, Glocker MO. **Mass spectrometry identifies myeloperoxidase as a major pANCA target antigen in ulcerative colitis (UC).** 39. Jahrestagung der DGMS (Deutsche Gesellschaft für Massenspektrometrie) (2006).

## Published Patent Applications

1. Stöcker W, Rateike M, Morrin M. **Verfahren zur Herstellung Festphasen-gebundener Bioreagenzien.** European patent application EP 1 718 948 (filed 2005).
2. Meyer W, Siegemund M, Stöcker W. **Vorrichtung zum immunenzymatischen Nachweis von Antikörpern in einer flüssigen Probe.** German patent application DE 20 2006 006 622.5 (filed 2006).

# 2005

## Publications

1. Drosten C, Müller-Kunert E, Dietrich M, Gerdes J, Schmitz H. **Topographic and quantitative display of integrated human immunodeficiency virus-1 provirus DNA in human lymph nodes by real-time polymerase chain reaction.** J Mol Diagn 7(2): 219-225 (2005).

2. Fan LY, Tu XQ, Zhu Y, Zhu Y, Zhu L, Pfeiffer T, Feltens R, Stöcker W, Zhong RQ. **Genetic association of vitamin D receptor polymorphisms with autoimmune hepatitis and primary biliary cirrhosis in the Chinese**. Gastroenterol Hepatol 20(2): 249-255 (2005).
3. Fan LY, Tue XQ, Zhu Y, Pfeiffer T, Feltens R, Stöcker W, Zhong RQ. **Genetic association of cytokines polymorphisms with autoimmune hepatitis and primary biliary cirrhosis in the Chinese**. World J Gastroenterol 11(18): 2768-2772 (2005).
4. Levett PN, Sonnenberg K, Sidaway F, Shead S, Niedrig M, Steinhagen K, Horsman GB, Drebot MA. **Use of IgG avidity assays for differentiation of primary from previous infections with West Nile virus**. J Clin Microbiol; 43(12): 5873-5875 (2005).
5. Mahler M, Raijmakers R, Dähnrich C, Blüthner M, Fritzler MJ. **Clinical evaluation of autoantibodies to a novel PM/Scl peptide antigen**. Arthritis Res Ther 7: R704-713 (2005).
6. Noack F, Kruger S, Thorns C, Finas D, Stöcker W, Diedrich K, Horny HP. **Application of novel tissue microarrays to investigate expression of tryptase, chymase and KIT protein in placental mast cells**. Arch Gynecol Obstet 272(3): 223-8 (2005).
7. Scheper T, Meyer W, Krueger S, Schlumberger W, Stöcker W. **Low-avidity IgG antibodies against the newly discovered Borrelia main antigen VlsE correlate to early stages of borreliosis**. Clin Microbiol Infect 11(2): 135-136 (2005).
8. Shead S, Sonnenberg K, Sidaway S, Horsman G, Levett P, Dawood M, Artsob H, Drebot M. **An evaluation of four test formats to discriminate between recent and past exposure to West Nile virus**. Can J Infect Dis Med Microbiol 16: 102 (2005).

## Abstracts & Posters

1. D'Costa M. **HEp-20-10/liver in combination with EUROLINE ANA profile – an effective and optimum system for ANA testing**. Autoantibody Communications 2(1): 1-2 (2005).
2. EUROIMMUN Medical Diagnostics Canada Inc. **The 2<sup>nd</sup> generation Anti-Nucleosome ELISA**. Autoantibody Communications 2(1): 2 (2005).
3. Levett PN, Sonnenberg K, Shead S, Sidaway F, Niedrig M, Kreher P, Arp B, Erdmann S, Jahn A, Steinhagen K, Drebot M, Horsman GB. **IgG avidity determinations but not IgM tests are capable to differentiate recent from previous infections with West Nile Virus**. 21. Annual clinical virology symposium and annual meeting Pan American society for clinical virology, Florida, Clearwater Beach, USA (2005).

## Lectures

1. Stöcker W, Käthner R. **Immunfluoreszenzkurs**. Halbtägige offizielle Kurs-Veranstaltungen bei der MEDICA 2005 (Kongress-Nr. 439), Düsseldorf. Themenüberblick im Veranstaltungs-Datenblatt (2005).
2. Linke S, Ellerbrok H, Kaiser A, Hagen N, Fiedler W, Müller T, Conraths FJ, Bairlein F, Köppen U, Borchers K, Grund C, Sonnenberg K, Schusser G, Müller H, Reuter I, Mühle RU, Niedrig M, Pauli G. **Prevalence of West Nile virus in birds and horses in Germany**. VIII. International Potsdam Symposium on Tick-Borne Diseases, Jena. Abstrakt im Programmheft (2005).

## Published patent applications

1. Stöcker W, Rateike M, Morrin M. **Verfahren zur Herstellung Festphasen-gebundener Bioreagenzien**. German and International patent application DE 102004005100 (filed 2004) and WO 2005/073693 (filed 2005).



2. Köhler S, Stöcker W, Komorowski L. **Diagnose entzündlicher Darmerkrankungen, insbesondere Colitis ulcerosa.** German patent application DE 10 2004 018 418 (filed 2004).
3. Suer W, Dähnrich C, Schlumberger W, Stöcker W. **Method for producing a nucleosome preparation and use thereof in in vitro diagnosis of disseminated lupus erythematosus (DLE).** US patent application US 2005/0233322 (filed 2003).

## 2004

### Publications

1. Fan LY, Tu XQ, Cheng QB, Zhu Y, Feltens R, Pfeiffer T, Zhong RQ. **Cytotoxic T lymphocyte associated antigen-4 gene polymorphisms confer susceptibility to primary biliary cirrhosis and autoimmune hepatitis in Chinese population.** World J Gastroenterol 10(20): 3056-3059 (2004).
2. Fan LY, Zhong RQ, Tu XQ, Pfeiffer T, Feltens R, Zhu Y, Zhou L. **Genetic association of tumor necrosis factor (TNF)-alpha polymorphisms with primary biliary cirrhosis and autoimmune liver diseases in a Chinese population.** Zhonghua Gan Zang Bing Za Zhi. 12(3): 160-162 (2004).
3. Suer W, Dähnrich C, Schlumberger W, Stöcker W. **Autoantibodies in SLE but not in scleroderma react with protein-stripped nucleosomes.** J Autoimmun 22(4): 325-334 (2004).
4. Thorns C, Noack F, Feller AC, Merz H, Stöcker W, Müller-Kunert E, Bernd H-W. **Application of newly developed tissue-arrays to study EMMPRIN (CD147) expression malignant non-hodgkin lymphoma.** Cancer Genomics & Proteomics 1: 45-52 (2004).

### Abstracts & Posters

1. Chang MS, Lu YT, Ho ST, Wu CC, Wei TY, Chen CJ, Hsu YT, Chu PC, Chen CH, Chue JM, Jan YL, Hung CC, Fan CC, Yang YC. **Antibody detection of SARS-CoV spike and nucleocapsid protein.** Biochemical and Biophysical Research Communications 314: 931-936 (2004).
2. Dähnrich C, Schlumberger W, Lehmann C, Stöcker W. **A newly developed anti-PR3 Capture ELISA shows a higher correlation to positive cANCA results and a better serological hit rate than a direct anti-PR3 ELISA.** In: Conrad K et al. (Hrsg). From Animal Models to Human Genetics: Research on the Induction and Pathogenicity of Autoantibodies. Pabst Science Publishers 4: 534-535 (2004).
3. Meyer W, Scheper T, Siegemund M, Takeuchi K, Schlumberger W, Stöcker W. **The SS-A/Ro 60 kDa protein is sufficient for the detection of autoantibodies against SS-A.** In: Conrad K et al. (Hrsg). From animal models to human genetics: Research on the induction and pathogenicity of autoantibodies. Pabst Science Publishers 4: 525-526 (2004).
4. Sonnenberg K, Hennig H, Yan H, He Z, Niedrig M, Pfeiffer T, Steinhagen K, Arp B, Schlumberger W, Stöcker W. **Test systems for the detection of coronavirus causing severe acute respiratory syndrome (SARS-CoV).** International Conference on SARS - one year after the (first) outbreak, Lübeck. Abstrakt im Kongressband (2004).
5. Sonnenberg K, Levett PN, Sidaway F, Niedrig M, Kreher P, Arp B, Erdmann S, Jahm A, Steinhagen K, Rohwäder E, Müller-Kundert E, Schlumberger W, Stöcker W, Horsman GB. **IgG avidity tests to differentiate primary from previous infections with West Nile Virus.**

27. Conjoint Meeting on Infectious Diseases. Regina, Saskatchewan, Canada. Canadian Association for Clinical Microbiology and Infectious Diseases (2004).

6. Sonnenberg K, Niedrig M, Steinhagen K, Rohwäder E, Meyer W, Schlumberger W, Müller-Kunert E, Stöcker W. **State-of-the-art serological techniques for detection of antibodies against tick-borne encephalitis virus**. Int J Med Microbiol 293(37): 148-151 (2004).

## Published Patent Applications

1. Suer W, Dähnrich C, Schlumberger W, Stöcker W. **Verfahren zur Herstellung einer Nukleosomen-Präparation und deren Verwendung zur in vitro-Diagnose von Lupus erythematoses disseminatus (LED)**. European patent application EP 1 476 750 (filed 2003).
2. Morrin M, Müller M, Wessel S, Rateike M, Stöcker W. **Lichtquelle für ein Auflichtfluoreszenzmikroskop**. German patent application DE 20 2004 010 121 (filed 2004).

## 2003

### Publications

1. Fan LY, Zhong RQ, Tu XQ, Zhu Y, Gong CL, Zhou L, Zhao ZX, Feltens R, Pfeiffer T. **Genetic association of vitamin D receptor polymorphisms with primary biliary cirrhosis and autoimmune liver diseases in Chinese**. Zhonghua Yi Xue Za Zhi. 83(21): 1852-1855 (2003).
2. Krüger S, Thorns C, Stöcker W, Müller-Kunert E, Böhle A, Feller AC. **Prognostic value of MCM2 immunoreactivity in stage T1 transitional cell carcinoma of the bladder**. Eur Urol 34(2):138-145 (2003).
3. Malina L, Lochman I, Meyer W, Michalikova H. **Autoantibodies in sporadic porphyria cutanea tarda**. Arch Dermatol Res 295(3): 109-111 (2003).
4. Miyakawa H, Kawashima Y, Kitazawa E, Kawaguchi N, Kato T, Kikuchi K, Imai E, Fujikawa H, Hashimoto E, Schlumberger W. **Low frequency of anti-SLA/LP autoantibody in Japanese adult patients with autoimmune liver diseases: analysis with recombinant antigen assay**. J Autoimmun 21: 77-82 (2003).
5. Niedrig M, Sonnenberg K, Yan H, Lehmann C, Pfeiffer T, Stöcker W. **Antibody response in patients infected with the new coronavirus causing severe acute respiratory syndrome (SARS)**. J Clin Virol 27: 1-15 (2003).
6. Sonnenberg K, Yan H, Niedrig M, Pfeiffer T, Steinhagen K, Arp B, Stöcker W, Schlumberger W. **Serological techniques for the detection of severe acute respiratory syndrome (SARS)**. Clin Chem Lab Med 41(10): A89-A90 (2003).
7. W. Meyer, T. Scheper, W. Schlumberger, W. Stöcker. **Antibodies Against the Newly Identified Major Antigen VlsE: A milestone in the Serological Diagnosis of Lyme borreliosis**. Clin Chem Lab Med 41(10): A90 (2003).
8. Yan HP, Kong S, Stöcker W, He LX, Zhang SB, Liu Y, Huang D, Zhao C. **Study on antibodies to liver antigens in Chinese patients with different liver diseases**. J Microbiol Immunol 1:53-57 (2003).
9. Yan HP, Stöcker W, He LX, Zhang SB, Kong SL, Yu HW, Min FY. **Characteristic study on autoantibodies in patients with liver diseases**. Chin J Immunol 4:278-281 (2003).

## Published Patent Applications

1. Pfeiffer T, Wulf K, Probst C, Zerbe B, Müller-Kunert E, Stöcker W. **Verfahren und Kit zum Nachweis von spezifischen Antikörpern mittels Immunfluoreszenz**. German patent application DE 102 07 135.7 (filed 2002).
2. Suer W, Dähnrich C, Schlumberger W, Stöcker W. **Verfahren zur Herstellung einer Nukleosomen-Präparation und deren Verwendung zur in vitro-Diagnose von Lupus erythematodes disseminatus (LED)**. German and International patent application DE 102 07 735.5 (filed 2002) and WO 2003/069337 (filed 2003).
3. Meyer W, Scheper T, Lehmann H, Stöcker W. **Selbstklebende Blotmembran**. German patent application DE 202 15 268.5 (filed 2003).
4. Meyer W, Scheper T, Stöcker W. **Vorrichtung zur Antikörperdiagnose mit kombinierten Membranen**. German patent application DE 202 15 270.7 (filed 2003).
5. Suer W, Dähnrich C, Schlumberger W, Stöcker W. **In-Vitro-Diagnosekit zum Nachweis von Lupus erythematodes disseminatus (LED)**. German patent application DE 202 12 524.6 (filed 2003).

## 2002

### Publications

1. Eing BR, Lippelt L, Lorentzen EU, Hafezi W, Schlumberger W, Steinhagen K, Kühn JE. **Evaluation of confirmatory strategies for detection of type-specific antibodies against herpes simplex virus type 2**. J Clin Microbiol 40(2): 407-13 (2002).
2. Espinola-Klein C, Rupprecht HJ, Blankenberg S, Bickel C, Kopp H, Rippin G, Victor A, Hafner G, Schlumberger W, Meyer J. **Impact of infectious burden on extent and long-term prognosis of atherosclerosis**. Circulation 105:15 (2002).
3. Espinola-Klein C, Rupprecht HJ, Blankenberg S, Bickel C, Kopp H, Victor A, Hafner G, Prellwitz W, Schlumberger W, Meyer J. **Impact of infectious burden on progression of carotid atherosclerosis**. Stroke 33:2581 (2002).
4. Lehmann C, Müller-Kunert E, Schlumberger W, Stöcker W. **Autoantikörperdiagnostik**. DBI Der Bayerische Internist 21(6): 365-373 (2001).
5. Meyer W, Sperling K, Siegemund M, Schlumberger W, Stöcker W. **EUROBLOT.ax – A membrane-based rapid assay for the detection of autoantibodies against extractable nuclear antigens (ENA)**. J Lab Med 26(9/10): 516 (2002).
6. Yan HP, Stöcker W, He L, Zhang S, Li X, Huang D, Zhao C. **Study on anti-liver antigens in Chinese patients with different liver diseases**. Chin J Microbiol Immunol 22:522-525 (2002).

### Abstracts & Posters

1. Espinola-Klein C, Rupprecht HJ, Blankenberg S, Bickel C, Kopp H, Rippin G, Victor A, Hafner G, Schlumberger W, Meyer J. **Impact of infectious burden on extent and long-term prognosis of atherosclerosis**. Circulation 105: 12-21 (2002).
2. Klotz M, Blaes FJ, Scheper T, Meyer W. **Differentiation of Autoantibodies in Patients with Paraneoplastic Neurological Syndrome**. Autoimmunity Reviews 1(1-2): 51 (2002).

3. Meyer W, Scheper T, Wilhelm K, Jarzabek-Chorzelska M, Kolacinska-Strasz Z, Schlumberger W, Stöcker W. **Antibodies against SS-A can only be precisely detected using the native antigen: Results of a study using the EUROLINE-WB.** In: Conrad K et al. (Hrsg). From Proteomics to Molecular Epidemiology: Relevance of Autoantibodies. Pabst Science Publishers 3: 651-652 (2002).
4. Meyer W, Schneider B, Nobile-Orazio E, Klotz M, Schlumberger W, Stöcker W. **EUROLINE anti-ganglioside profile: A new membrane test for the detection of antibodies against gangliosides.** Autoimmunity Reviews 1(1-2): 71 (2002).
5. Scheper T, Klatt P, Teegen B, Jarzabek-Chorzelska M, Kolacinska-Strasz Z, Meyer W, Schlumberger W, Stöcker W. **Anti-Mi-2 westernblot: A new test for the serological detection of myositis specific autoantibodies.** Autoimmunity Reviews 1(1-2): 17 (2002).
6. Scheper T, Klotz M, Meyer W, Schlumberger W, Stöcker W. **EUROLINE-WB allows reliable differentiation of autoantibodies against neural antigens in patients with paraneoplastic neurological syndrome.** In: Conrad K et al. (Hrsg). From Proteomics to Molecular Epidemiology: Relevance of Autoantibodies. Pabst Science Publishers 3: 562-563 (2002).
7. Schlumberger W, Dähnrich C, Frahm S, Siegemund M, Meyer W, Suer W, Stöcker W. **Diagnostic relevance of autoantibodies against nucleosomes.** Autoimmunity Reviews 1(1-2): 32 (2002).
8. Schlumberger W, Dähnrich C, Suer W, Frahm S, Stöcker W. **Autoantibodies against nucleosomes are pathognomonic for SLE – a 2<sup>nd</sup> generation ELISA shows no reactivity with sera from scleroderma patients.** In: Conrad K et al. (Hrsg). From Proteomics to Molecular Epidemiology: Relevance of Autoantibodies. Pabst Science Publishers 3: 639-640 (2002).