



## EUROIMMUN Publications and Patents

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2. 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).
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4. Kruse T et al. **Comparison of prototype ELISAs for serodiagnosis of visceral leishmaniasis**. 34th European Congress of Clinical Microbiology & Infectious Diseases (ECCMID), Barcelona, Spain.
5. 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.
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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).
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  8. Borchardt-Lohöfner 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).
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  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).
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  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).

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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).
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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).
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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).
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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).
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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).
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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. **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).

49. 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).
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.** Clinical Virology Symposium (CVS) of the American Society for Microbiology (ASM), West Palm Beach, USA (2023).
51. 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).
52. 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).
53. 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).
54. 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).
55. 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).
56. 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).
57. 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).
58. 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).
59. 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).
60. 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).
61. 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).
62. 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).
63. 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 Fänger-molekülbeschichtungen 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? [Assessment of psychological problems in inflammatory bowel diseases – who uses the online version at 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, Rosenstock P, Herbst V. **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 Probenräger 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?** AACC Academy Scientific Shorts. May 18, 2021.
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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. Cavalari 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

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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).
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## Lectures

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## 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).
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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).
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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).
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- 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).
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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).
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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. Cavalari 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).
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12. Grypiotis P. **PR3 and PLA2R using the chemiluminescence technique**. 14. Dresden Symposium on Autoantibodies, Dresden, Germany (2019).
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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)
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51. Fechner K. **IFA: Multiplexing and automation**. XIX Congreso Internacional de Bacteriología, CNB, Bogota, Colombia (2019)
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## 2018

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## 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 linger-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).
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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).
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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).
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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).
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Meeting of the Association of Medical Laboratory Immunologists, Scottsdale, USA (2018).

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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).
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Bogdanos DP. **Helicobacter pylori CagA and VacA seropositivity in patients with psoriasis**. 11. Autoimmunity Congress, Lissabon, Portugal (2018).

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## Lectures

1. Arendt P. **New developments in beta-amyloid CSF measurements**. 1. Congrès des 7 CoEN, Montpellier, France (2018).
2. Cavalari M. **Career paths outside academia**. 2. International RTG 1743 Symposium, Kiel, Germany (2018).
3. Cavalari 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-immun-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, Cavalari M. **Assay for the diagnosis of dermatophytosis.** European patent application EP3382032 (filed 2017).
3. Harder M, Gräser Y, Kupsch C, Cavalari 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, Dährnich 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

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2. Beek van N, Dährnich 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, Hacoheh Y, Komorowski L, Scharf M, Dehais C, Leclercq D, Fourchette 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).
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- nasopharyngeal carcinoma in a high-risk population of China.** *Cancer Prev Res (Phila)* 10(9):542-550 (2017).
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  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).
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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).
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## Abstracts & Posters

1. Chunder R, Lington 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 heretocomplex 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, Radzimski 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, Cavalari M, Brasch J, Nenoff P, Uhrlaß S, Gräser Y. **Performance test of the DNA microarray "EUROArray Dermatomycolysis".** 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, Schaevebeke 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



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  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, Taiwanese, 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 diagnosis of a neurological disease**. International patent application WO2017/190834 (filed 2017).

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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. Cavalari 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).
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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, Buttman 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).
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## 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.

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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).
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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).
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- negative patients.** 6. International Meeting on Emerging Diseases and Surveillance, Wien, Austria (2016).
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  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 diagnóstico microscópico 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).
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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

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4. Kaffka C. **Inkubationsrinne**. International und European patent application WO2016/169576 (filed 2015) und EP3085446 (filed 2015).
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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).
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## 2015

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## Abstracts & Posters

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2. Cavalari 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).
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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).
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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).
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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).

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2. EUROIMMUN China. **Vorrichtung zur biologischen Detektion.** German patent application DE 20 2015 001 876 (filed 2015).
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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).
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## 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. Cavalari 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. Cavalari 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).
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20. Sutphen C, Shah AR, Jasielc 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), Copenhagen, 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), Copenhagen, 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,

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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).
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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).
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## Lectures

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2. Fechner K. **1. Update on ANA screening and differentiation. 2. Diagnostic tools for**

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  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).
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  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).
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## 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).
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- Einsatz in Diagnoseverfahren.** Chinese and European patent application CN 103 282 776 (filed 2013) and EP 2 649 448 (filed 2013).
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## Abstracts & Posters

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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).
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## 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).
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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.**

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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).
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## Abstracts & Posters

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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**

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4. Hoxha E, Fechner F, Harendza S, Stahl RAK. **Influence of Retuximab therapy on autoantibodies against phospholipase A2 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).
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  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).
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  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).
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  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).

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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).
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## 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. utomatisierung 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-IIFT in the diagnosis of autoimmune disorders.** EUROIMMUN Satellite Symposium, Shanghai, China (2011).
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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

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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).
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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).
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## 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).
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## Lectures

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