

CANDOR products were used for the following scientific publications (amongst many others):

- A. Lee et al. (2024). BCG vaccination stimulates integrated organ immunity by feedback of the adaptive immune response to imprint prolonged innate antiviral resistance. *Nature Immunology*, 25(1), 41-53.
- P. Piñol-Jurado et al. (2024). Imaging mass cytometry analysis of Becker muscular dystrophy muscle samples reveals different stages of muscle degeneration. *Scientific Reports*, 14(1), 3365.
- S. J. Liu et al. (2024). Epigenetic reprogramming shapes the cellular landscape of schwannoma. *Nature communications*, 15(1), 476.
- J. Staniek et al. (2024). Non-apoptotic FAS signaling controls mTOR activation and extrafollicular maturation in human B cells. *Science immunology*, 9(91), eadj5948.
- J. G. Castillo et al. (2024). A mass cytometry approach to track the evolution of T cell responses during infection and immunotherapy by paired T cell receptor repertoire and T cell differentiation state analysis. *bioRxiv*, 2024-01.
- C. Su et al. (2024). Enhancing radiotherapy response via intratumoral injection of the TLR9 agonist CpG to stimulate CD8 T cells in an autochthonous mouse model of sarcoma. *bioRxiv*, 2024-01. doi.org/10.1101/2024.01.03.573968
- Y. C. Wu et al. (2024). Targeting of FSP1 regulates iron homeostasis in drug-tolerant persister head and neck cancer cells via lipid-metabolism-driven ferroptosis. *Aging (Albany NY)*, 16(1), 627.
- X. Deng et al. (2024). Eliminating drug target interference with specific antibody or its F (ab')<sub>2</sub> fragment in the bridging immunogenicity assay. *Bioanalysis*, (0).
- L. Xu et al. (2024). Aptamer-based cell-surface profiling with single-cell resolution enables precise cancer characterization. *CCS Chemistry*, 6(1), 196-207.
- J. T. Nicol et al. (2024). Prevalence of IgG antibodies against Malawi polyomavirus in patients with autoimmune diseases and lymphoproliferative disorders subjected to bone marrow transplantation. *Frontiers in Immunology*, 14, 1293313.
- S. Glöggler, S. & C. Vogt (2023). Beschleunigung des Western-Blotting. In *Immunoassays: ergänzende Methoden, Troubleshooting, regulatorische Anforderungen* (pp. 177-187). Berlin, Heidelberg: Springer Berlin Heidelberg.
- P. Rauch, & T. Polifke (2023). Störeffekte bei immunoassays. In *Immunoassays: ergänzende Methoden, Troubleshooting, regulatorische Anforderungen* (pp. 521-538). Berlin, Heidelberg: Springer Berlin Heidelberg.
- T. Polifke & P. Rauch (2023). Auswertung und Validierung. In *Immunoassays: ergänzende Methoden, Troubleshooting, regulatorische Anforderungen* (pp. 557-571). Berlin, Heidelberg: Springer Berlin Heidelberg.
- A. Zellmer et al. (2023). Stabilisierung von Assaykomponenten. In *Immunoassays: ergänzende Methoden, Troubleshooting, regulatorische Anforderungen* (pp. 507-519). Berlin, Heidelberg: Springer Berlin Heidelberg.
- F. H. Mouzinga et al. (2023). Mucosal response of inactivated and recombinant COVID-19 vaccines in Congolese individuals. *Immunity, Inflammation and Disease*, 11(12), e1116.
- S. Janciauskiene et al. (2023). An Enzyme-Linked Immunosorbent Assay (ELISA) for Quantification of Circulating Pi\* Z Alpha1-Antitrypsin Polymers. In *Alpha-1 Antitrypsin: Methods and Protocols* (pp. 113-122). New York, NY: Springer US.
- P. Schneider & A. Funk (2023). Troubleshooting und Hilfestellungen bei der Entwicklung, Validierung und Durchführung von ELISAs. In *Immunoassays: ergänzende Methoden, Troubleshooting, regulatorische Anforderungen* (pp. 539-555). Berlin, Heidelberg: Springer Berlin Heidelberg.
- A. Li et al. (2023). Phage-derived anti-idiotypic and anti-YTE antibodies in development of MK-1654 pharmacokinetic and immune response assays. *Bioanalysis*, 15(16), 1049-1067.

- M. Nilsen et al. (2023). Gut bacteria at 6 months of age are associated with immune cell status in 1-year-old children. *Scandinavian Journal of Immunology*, e13346.
- Q. W. Man et al. (2023). Single-cell analysis reveals immune cellular components in odontogenic keratocysts. *Oral Diseases*, 29(8), 3420-3432.
- E. E. Vietsch et al. (2023). B cell immune profiles in dysbiotic vermiform appendixes of pancreatic cancer patients. *Frontiers in Immunology*, 14, 1230306.
- L. Karra et al. (2023). Single cell proteomics characterization of bone marrow hematopoiesis with distinct Ras pathway lesions. *bioRxiv*, 2023-12.
- M. Weiss-Tessbach et al. (2023). Recombinant human diamine oxidase prevents hemodynamic effects of continuous histamine infusion in guinea pigs. *Inflammation Research*, 1-10.
- H. P. Grimm et al. (2023). Delivery of the Brainshuttle™ amyloid-beta antibody fusion trontinemab to non-human primate brain and projected efficacious dose regimens in humans. In *Mabs* (Vol. 15, No. 1, p. 2261509). Taylor & Francis.
- S. Yu et al. (2023). Systemic immune profiling of Omicron-infected subjects inoculated with different doses of inactivated virus vaccine. *Cell*, 186(21), 4615-4631.
- K. H. Hu et al. (2023). Transcriptional space-time mapping identifies concerted immune and stromal cell patterns and gene programs in wound healing and cancer. *Cell stem cell*, 30(6), 885-903.
- J. L. Cadavid et al. (2023). An Engineered Paper-Based 3D Co-Culture Model of Pancreatic Cancer to Study the Impact of Tissue Architecture and Microenvironmental Gradients on Cell Phenotype. *Advanced Healthcare Materials*, 12(14), 2201846.
- E. Y. Faraoni et al. (2023). Radiofrequency ablation remodels the tumor microenvironment and promotes neutrophil-mediated abscopal immunomodulation in pancreatic cancer. *Cancer immunology research*, 11(1), 4-12.
- R. C. Lintao et al. (2023). Characterization of fetal microchimeric immune cells in mouse maternal hearts during physiologic and pathologic pregnancies. *Frontiers in Cell and Developmental Biology*, 11, 1256945.
- S. J. Luk et al. (2023). VISTA expression on cancer-associated endothelium selectively prevents T-cell extravasation. *Cancer Immunology Research*, 11(11), 1480-1492.
- S. Mohandas et al. (2023). Genomic characterization, transcriptome analysis and pathogenicity of the Nipah virus (Indian isolate). *Virulence*, 14:1.
- P. J. Rauch et al. (2023). Loss-of-function mutations in Dnmt3a and Tet2 lead to accelerated atherosclerosis and concordant macrophage phenotypes. *Nature Cardiovascular Research*, 1-14.
- D. Y. Patil et al. (2023). A case of human buffalopox in Malappuram, India: The role of mpox surveillance in 2022. *Journal of Medical Virology*, 95(2), e28580.
- M. Thibaudin et al. (2023). First-line durvalumab and tremelimumab with chemotherapy in RAS-mutated metastatic colorectal cancer: a phase 1b/2 trial. *Nature Medicine*, 1-12.
- K. Stauffer et al. (2023). Gas6 in chronic liver disease—a novel blood-based biomarker for liver fibrosis. *Cell death discovery*, 9(1), 282.
- Q. Zhang et al. (2023). Aerosolized miR-138-5p and miR-200c targets PD-L1 for lung cancer prevention. *Frontiers in Immunology*, 14.
- S. Greenbaum et al. (2023). (2023). A spatially resolved timeline of the human maternal–fetal interface. *Nature*, 619(7970), 595-605.
- M. U. Johansson et al. (2023). Design of antibody variable fragments with reduced reactivity to preexisting anti-drug antibodies. In *Mabs* (Vol. 15, No. 1, p. 2215887). Taylor & Francis.

- S. Woelfel et al. (2023). STAR SIGN study: Evaluation of COVID-19 vaccine efficacy against the SARS-CoV-2 variants BQ. 1.1 and XBB. 1.5 in patients with inflammatory bowel disease. *Alimentary pharmacology & therapeutics*.
- A. Dulovic et al. (2023). Longitudinal Analysis of Humoral and Cellular Immunity in SARS-CoV-2 Exposed Families.
- A. Xanthopoulos et al. (2023). Hsp70 - A Universal Biomarker for Predicting Therapeutic Failure in Human Female Cancers and a Target for CTC Isolation in Advanced Cancers. *Biomedicines*, 11(8), 2276.
- A. K. Kammala et al. (2023). Extracellular Vesicles-mediated recombinant IL-10 protects against ascending infection-associated preterm birth by reducing fetal inflammatory response. *Frontiers in immunology*, 14.
- A. B. Dezfouli et al. (2023). Immunohistochemical, Flow Cytometric, and ELISA-Based Analyses of Intracellular, Membrane-Expressed, and Extracellular Hsp70 as Cancer Biomarkers. In *Chaperones: Methods and Protocols* (pp. 307-324). New York, NY: Springer US.
- X. Zhou et al. (2023). The expression of transglutaminase 2 is increased in SSc and regulates fibroblast activation in three-dimensional full thickness skin models. *Arthritis & Rheumatology*, 75 (9) 1619-1627.
- C. Tandler et al. (2023). Long-term efficacy of the peptide-based COVID-19 T cell activator CoVac-1 in healthy adults. *medRxiv*, 2023-06.
- Y. Xu et al. (2023). CD16+ monocytes are involved in the hyper-inflammatory state of Prader-Willi Syndrome by single-cell transcriptomic analysis. *Frontiers in Immunology*, 14, 1153730.
- A. L. Voskamp et al. (2023). Inflammatory and tolerogenic myeloid cells determine outcome following human allergen challenge. *Journal of Experimental Medicine*, 220(9), e20221111.
- M. Grossegeesse et al. (2023) Serological methods for the detection of antibodies against Monkeypox virus applicable for laboratories with different biosafety levels. DOI: 10.22541/au.168724470.01249438/v1
- A. Kurilla et al. (2023). Studying the Association of TKS4 and CD2AP Scaffold Proteins and Their Implications in the Partial Epithelial–Mesenchymal Transition (EMT) Process. *International Journal of Molecular Sciences*, 24(20), 15136.
- M. Le Rochais et al. (2023). Deciphering the maturation of tertiary lymphoid structures in cancer and inflammatory diseases of the digestive tract using imaging mass cytometry. *Frontiers in Immunology*, 14, 1147480.
- F. Benedetti et al. (2023). Selection of High-Affinity Heterodimeric Antigen-Binding Fc Fragments from a Large Yeast Display Library. In *Genotype Phenotype Coupling: Methods and Protocols* (pp. 131-159). New York, NY: Springer US.
- J. R. Lin et al. (2023). High-plex immunofluorescence imaging and traditional histology of the same tissue section for discovering image-based biomarkers. *Nature Cancer*, 1-17.
- D. Verboogen et al. (2023). Heterophilic antibodies leading to falsely positive D-dimer concentration in an adolescent. *Research and practice in thrombosis and haemostasis*, 7(1), 100017.
- D. Vicogne et al. (2023). Insights into the regulation of cellular Mn<sup>2+</sup> homeostasis via TMEM165. *Biochimica et Biophysica Acta (BBA)-Molecular Basis of Disease*, 1869(6), 166717.
- A. Pöhler et al. (2023). High ionic strength dissociation assay reduces dimeric target interference in immunogenicity testing. *Bioanalysis*, 15(14), 823-832.
- A. Li et al. (2023). Phage-derived anti-idiotypic and anti-YTE antibodies in development of MK-1654 pharmacokinetic and immune response assays. *Bioanalysis*, 15(16), 1049-1067.
- R. Kumar et al. (2023). Synthesis, Characterization, and Applications of a Superior Dendrimer-Based Polymer for Multiplexed Ion Beam Imaging Time-of-Flight Analysis. *Biomacromolecules* 24,7, 3105-3114 .
- D. Mrdjen et al. (2023). Spatial proteomics reveals human microglial states shaped by anatomy and neuropathology. doi. org/10.21203/rs.3.rs-2987263/v1

- A. K. Andiappan et al. (2023). Tropical urban environments reveal a strong association of CD45RB lo TH2A subset to allergic rhinitis. *Authorea*. May 08, 2023.
- Y. Kinoshita et al. (2023). Assessment of tetanus revaccination regimens in horses not vaccinated in the previous year. *Journal of Veterinary Medical Science*, 23-0158.
- S. Safi et al. (2023). Circulating Hsp70 Levels and the Immunophenotype of Peripheral Blood Lymphocytes as Potential Biomarkers for Advanced Lung Cancer and Therapy Failure after Surgery. *Biomolecules*, 13(5), 874.
- A. Kishore et al. (2023). Fluorescence Masking Based Multifunctional Quantum Dots' Assay for HSP90 $\alpha$  Interactions Detection. *Applied Sciences*, 13(5), 2957.
- O. V. Bjoernstad et al. (2023). Global and single-cell proteomics view of the co-evolution between neural progenitors and breast cancer cells in a co-culture model. *bioRxiv*, 2023-05. doi.org/10.1101/2023.05.03.539050
- L. Xu et al. (2023). Aptamer-based cell-surface profiling with single-cell resolution enables precise cancer characterization. *CCS Chemistry*, 1-12.
- L. Rodriguez et al. (2023). Achieving symptom relief in patients with Myalgic encephalomyelitis by targeting the neuro-immune interface and optimizing disease tolerance. *Oxford Open Immunology*, 4(1), iqad003.
- E. Y. et al. (2023). Radiofrequency ablation remodels the tumor microenvironment and promotes neutrophil-mediated abscopal immunomodulation in pancreatic cancer. *Cancer immunology research*, 11(1), 4-12.
- C. Mazziotta et al. (2023). Immunological evidence of an early seroconversion to oncogenic Merkel cell polyomavirus in healthy children and young adults. *Immunology*, 168(4), 671-683.
- M. Kilisch et al. (2023). Simple and Highly Efficient Detection of PSD95 Using a Nanobody and Its Recombinant Heavy-Chain Antibody Derivatives. *International Journal of Molecular Sciences*, 24(8), 7294.
- A. Goyal et al. (2023). Fit-for-purpose validation of a drug-tolerant immunogenicity assay for a human mAb drug in animal safety studies. *Journal of Immunological Methods*, 512, 113406.
- A. Lee et al. (2023). Integrated Organ Immunity: Antigen-specific CD4-T cell-derived IFN- $\gamma$  induced by BCG imprints prolonged lung innate resistance against respiratory viruses. *bioRxiv*, 2023-07.
- M. Buehler et al. (2023). Quantitative proteomic landscapes of primary and recurrent glioblastoma reveal a protumorigenic role for FBXO2-dependent glioma-microenvironment interactions. *Neuro-oncology*, 25(2), 290-302.
- R. K. Patel et al. (2023). Cyclone: an accessible pipeline to analyze, evaluate and optimize multiparametric cytometry data. *bioRxiv*, 2023-03. doi.org/10.1101/2023.03.08.531782
- M. K. Rahim et al. (2023). Dynamic CD8+ T cell responses to cancer immunotherapy in human regional lymph nodes are disrupted in metastatic lymph nodes. *Cell*, 186(6), 1127-1143.
- R. J. Eberle et al. (2023). Tau protein aggregation associated with SARS-CoV-2 main protease. *Plos one*, 18(8), e0288138.
- R. Tannenberg et al. (2023). Chemiluminescence Biosensor for the Determination of Cardiac Troponin I (cTnI). *Biosensors*, 13(4), 455.
- S. G. Danielli et al. (2023). Single-cell profiling of alveolar rhabdomyosarcoma reveals RAS pathway inhibitors as cell-fate hijackers with therapeutic relevance. *Science Advances*, 9(6), eade9238.
- T. C. van der Sluis et al. (2023). OX40 agonism enhances efficacy of PD-L1 checkpoint blockade by shifting the cytotoxic T cell differentiation spectrum. *Cell Reports Medicine*, 4(3).
- R. Dhanasekaran et al. (2023). MYC Overexpression Drives Immune Evasion in Hepatocellular Carcinoma That Is Reversible through Restoration of Proinflammatory Macrophages. *Cancer Research*, 83(4), 626-640.

- L. Salvermoser et al (2023). Elevated circulating Hsp70 levels are correlative for malignancies in different mammalian species. *Cell Stress and Chaperones*, 28(1), 105-118.
- J. N. Søndergaard et al. (2023). A sex-biased imbalance between Tfr, Tph, and atypical B cells determines antibody responses in COVID-19 patients. *Proceedings of the National Academy of Sciences*, 120(4), e2217902120.
- A. T. Mayer et al. (2023). A tissue atlas of ulcerative colitis revealing evidence of sex-dependent differences in disease-driving inflammatory cell types and resistance to TNF inhibitor therapy. *Science Advances*, 9(3), eadd1166.
- M. Wang et al. (2023). Single-Cell Analysis in Blood Reveals Distinct Immune Cell Profiles in Gouty Arthritis. *The Journal of Immunology*, ji2200422.
- D. R. K. Weerasuriya et al. (2023). COVID-19 Detection Using a 3D-Printed Micropipette Tip and a Smartphone. *ACS sensors*.
- A. Kurilla et al (2023). The regulatory role of the CD2AP/TKS4 interaction in EMT and its potential as a biomarker for colon cancer. *bioRxiv*, 2023-01.
- J. Majewska et al. (2023). p16-dependent upregulation of PD-L1 impairs immunosurveillance of senescent cells. *bioRxiv*, 2023-01.
- N. Schwarz et al. (2023). Ex Vivo Modeling of the PC (Protein C) Pathway Using Endothelial Cells and Plasma: A Personalized Approach. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 43(1), 109-119.
- R. Aguilar et al. (2023). RBD-Based ELISA and Luminex Predict Anti-SARS-CoV-2 Surrogate-Neutralizing Activity in Two Longitudinal Cohorts of German and Spanish Health Care Workers. *Microbiology Spectrum*, e03165-22.
- B. Krämer et al. (2023). Single-cell RNA sequencing identifies a population of human liver-type ILC1s. *Cell Reports*, 42(1), 111937.
- S. M. Shin et al. (2023). CyTOF protocol for immune monitoring of solid tumors from mouse models. *STAR protocols*, 4(1), 101949.
- S. F. Mohamad et al. (2023). Utilizing CyTOF to Examine Hematopoietic Stem and Progenitor Phenotype. *Hematopoietic Stem Cells* (pp. 113-126). Humana, New York.
- L. Coillard et al. (2022). The NFAT3/REERG Complex in Luminal Breast Cancers Is Required to Inhibit Cell Invasion and May Be Correlated With an Absence of Axillary Lymph Nodes Colonization. *Advancements in Metastatic Breast Cancer: Predictive and Prognostic Biomarkers, and Molecular Mechanisms*.
- S. Beck et al. (2022). A Protein Microarray-Based Respiratory Viral Antigen Testing Platform for COVID-19 Surveillance. *Biomedicines*, 10(9), 2238.
- E. M. Jacobsen et al. (2022). High antibody and reduced cellular response in children up to one year after SARS-CoV-2 infection. *Nature Communications* 13(1), 1-16.
- C. Shen et al. (2022). HTLV-1 infection of donor-derived T cells might promote acute graft-versus-host disease following liver transplantation. *Nature Communications*, 13(1), 1-12.
- J. LVallvé-Juanico et al. (2022). Deep immunophenotyping reveals endometriosis is marked by dysregulation of the mononuclear phagocytic system in endometrium and peripheral blood. *BMC medicine*, 20(1), 1-19.
- B. L. McClellan et al. (2022). Murine brain tumor microenvironment immunophenotyping using mass cytometry. *STAR protocols*, 3(2), 101357.
- L. Salvermoser et al (2022). Elevated circulating Hsp70 levels are correlative for malignancies in different mammalian species. *Cell Stress and Chaperones*, 1-14.
- T. Ma et al. (2022). Single-cell glycomics analysis by CyTOF-Lec reveals glycan features defining cells differentially susceptible to HIV. *Elife*, 11, e78870.

- R. R. Sahay et al. (2022). Evaluation of immunogenicity post two doses of inactivated SARS-CoV-2 vaccine, Covaxin after six months. *Human Vaccines & Immunotherapeutics*, 2156753.
- A. B. Keeler et al. (2022). A developmental atlas of somatosensory diversification and maturation in the dorsal root ganglia by single-cell mass cytometry. *Nature Neuroscience*, 1-16.
- M. Korodi et al. (2022). Longitudinal determination of BNT162b2 vaccine induced strongly binding SARS-CoV-2 IgG antibodies in a cohort of Romanian healthcare workers. *Vaccine*, 40(37), 5445-5451.
- A. Egorov et al. (2022). The Mineralization of Various 3D-Printed PCL Composites. *Journal of Functional Biomaterials*, 13(4), 238.
- L. L. Cid et al. (2022). T cell landscape definition by multi-omics identifies Galectin-9 as novel immunotherapy target in chronic lymphocytic leukemia. *bioRxiv*. doi.org/10.1101/2022.12.15.519719
- P. Rybakowska et al. (2022). Protocol for large scale whole blood immune monitoring by mass cytometry and Cyto Quality Pipeline. *STAR protocols*, 3(4), 101697.
- I. Adkins et al. (2022). SOT101 induces NK cell cytotoxicity and potentiates antibody-dependent cell cytotoxicity and anti-tumor activity. *Frontiers in Immunology*, 5334.
- J. L. Cadavid et al. (2022). An Engineered Paper-Based 3D Co-Culture Model of Pancreatic Cancer to Study the Impact of Tissue Architecture and Microenvironmental Gradients on Cell Phenotype. *Advanced Healthcare Materials*, 2201846.
- A. R. Moore et al. (2022). Gestationally dependent immune organization at the maternal-fetal interface. *Cell Reports*, 41(7), 111651.
- N. Schwarz et al (2022). Ex Vivo Modeling of the PC (Protein C) Pathway Using Endothelial Cells and Plasma: A Personalized Approach. *Arteriosclerosis, Thrombosis, and Vascular Biology*. doi.org/10.1161/ATVBAHA.122.318433
- M. K. Rahim et al. (2022). Dynamic CD8+ T cell responses to cancer immunotherapy in human regional lymph nodes are disrupted by metastasis. *bioRxiv*. doi.org/10.1101/2022.11.08.513062
- C. Mazziotta et al. (2022). Immunological evidence of an early seroconversion to oncogenic Merkel cell polyomavirus in healthy children and young adults. *Immunology*. doi.org/10.1111/imm.13601
- S. Seier et al. (2022). Elevated Levels of Circulating Hsp70 and an Increased Prevalence of CD94+/CD69+ NK Cells Is Predictive for Advanced Stage Non-Small Cell Lung Cancer. *Cancers*, 14(22), 5701.
- S. Lukas et al. (2022). Elevated circulating Hsp70 levels are correlative for malignancies in different mammalian species. *Cell Stress and Chaperones*, 1-14.
- S. P. Jochems et al. (2022). Innate and adaptive nasal mucosal immune responses following experimental human pneumococcal colonization. *The Journal of clinical investigation*, 129(10).
- C. E. Burnett et al. (2022). Mass cytometry reveals a conserved immune trajectory of recovery in hospitalized COVID-19 patients. *Immunity*, 55(7), 1284-1298.
- E. Radnaa et al. (2022). Stress Signaler p38 Mitogen-Activated Kinase Activation: A Cause for Concern? *Clinical Science*. doi.org/10.1042/CS20220491
- M. Van Tilbeurgh et al. (2022). Innate cell markers that predict anti-HIV neutralizing antibody titers in vaccinated macaques. *Cell Reports Medicine*, 100751.
- L. Fan et al. (2022). High-dimensional Single-cell Analysis Delineates Peripheral Immune Signature of Coronary Atherosclerosis in Human Blood. *Theranostics*, 12(15), 6809-6825.
- A. Pöhler et al. (2022). Comparison of assay formats used for the detection of pre-existing anti-drug antibodies against monoclonal antibodies. *Bioanalysis*, 14(13), 923-933.

- J. Qiu et al (2022). Quantification of pharmacokinetic profiles of a recombinant canine PD-1 fusion protein by validated sandwich ELISA method. *Frontiers in Veterinary Science*, 9.
- L. Müller et al. (2022). Comparison of the measured values of quantitative SARS-CoV-2 spike antibody assays. *Journal of Clinical Virology*, 105269.
- M. Kohansal-Nodehi et al. (2022). Haptoglobin polymorphism affects its N-glycosylation pattern in serum. *Journal of Mass Spectrometry and Advances in the Clinical Lab*.
- T. Murakami et al. (2022). Analysis of the sustained release ability of bevacizumab-loaded tetra-PEG gel. *Experimental Eye Research*, 109206.
- A. L. Van Deusen et al. (2022). A developmental atlas of the mouse brain by single-cell mass cytometry. *bioRxiv*. doi.org/10.1101/2022.07.27.501794
- P. Niewold et al. (2022). An imaging mass cytometry immunophenotyping panel for non-human primate tissues. *Frontiers in Immunology*, 13.
- G. Lucchese et al. (2022). Anti-neuronal antibodies against brainstem antigens are associated with COVID-19. *eBioMedicine*, 83, 104211.
- I. Bononi et al. (2022). Neurological Disease-Affected Patients, including Multiple Sclerosis, Are Poor Responders to BK-PyV, a Human Polyomavirus. *Journal of Immunology Research*, 2022.
- M. Buehler et al. (2022). Quantitative proteomic landscapes of primary and recurrent glioblastoma reveal a protumorigenic role for FBXO2-dependent glioma-microenvironment interactions. *Neuro-oncology*, noac169.
- Q. W. Man et al. (2022). Single-cell analysis reveals immune cellular components in odontogenic keratocysts. *Oral Diseases*.
- Z. Wang et al. (2022). Leucine-tRNA-synthase-2-expressing B cells contribute to colorectal cancer immunoevasion. *Immunity*, 55(6), 1067-1081.e8
- L. Golusda et al. (2022). Visualization of Inflammation in Experimental Colitis by Magnetic Resonance Imaging Using Very Small Superparamagnetic Iron Oxide Particles. *Frontiers in Physiology*, 1369.
- X. Wu et al. (2022). Laser-induced breakdown spectroscopy (LIBS)-based assay for point-of-care (POC) detection of cytokines in COVID-19 infection. In *Smart Biomedical and Physiological Sensor Technology XIV* (Vol. 12123, pp. 68-74). SPIE.
- E. Mazzoni et al. (2022). Sera from Patients with Malignant Pleural Mesothelioma Tested Positive for IgG Antibodies against SV40 Large T Antigen: The Viral Oncoprotein. *Journal of Oncology*, 2022.
- Y. X. Wang et al. (2022). A single cell spatial temporal atlas of skeletal muscle reveals cellular neighborhoods that orchestrate regeneration and become disrupted in aging. *bioRxiv*. doi.org/10.1101/2022.06.10.494732
- E. Fielder et al. (2022). Short senolytic or senostatic interventions rescue progression of radiation-induced frailty and premature ageing in mice. *Elife*, 11, e75492.
- M. Gehrke et al. (2022). Immunogenicity of Novel AAV Capsids for Retinal Gene Therapy. *Cells*, 11(12), 1881.
- D. Junker et al. (2022). COVID-19 patient serum less potently inhibits ACE2-RBD binding for various SARS-CoV-2 RBD mutants. *Scientific reports*, 12(1), 1-13.
- C. Deschermeier et al. (2022). Fcγ-Receptor-Based Enzyme-Linked Immunosorbent Assays for Sensitive, Specific, and Persistent Detection of Anti-SARS-CoV-2 Nucleocapsid Protein IgG Antibodies in Human Sera. *Journal of Clinical Microbiology*, e00075-22.
- S. Vogt et al. (2022). Construction of Yeast Display Libraries for Selection of Antigen-Binding Variants of Large Extracellular Loop of CD81, a Major Surface Marker Protein of Extracellular Vesicles. In *Yeast Surface Display* (pp. 561-592).

Humana, New York, NY.

L. Lutter et al. (2022). Compartment-driven imprinting of intestinal CD4 (regulatory) T cells in inflammatory bowel disease and homeostasis. *bioRxiv*. doi.org/10.1101/2022.05.06.490870

R. Dhanasekaran et al. (2022). MYC Overexpression Drives Immune Evasion in Human Cancer that is Reversible Through Restoration of Pro-Inflammatory Macrophages. *bioRxiv*. doi.org/10.1101/2022.05.13.491873

E. Porpiglia et al. (2022). Elevated CD47 is a hallmark of dysfunctional aged muscle stem cells that can be targeted to augment regeneration. *bioRxiv*. doi.org/10.1101/2022.04.29.489435

S. Goetze et al. (2022). Use of MS-GUIDE for identification of protein biomarkers for risk stratification of patients with prostate cancer. *Clinical Proteomics*, 19(1), 1-13.

A. Brozovich et al.(2022). Evaluation of local tissue peri-implant reaction in total knee arthroplasty failure cases. *Therapeutic Advances in Musculoskeletal Disease*, 14, 1759720X221092263.

S. G. Danielli et al.(2022). Single-cell mapping of tumor heterogeneity in pediatric rhabdomyosarcoma reveals developmental signatures with therapeutic relevance. *bioRxiv*. doi.org/10.1101/2022.04.20.487706

L. D. V. Roditi et al.(2022). Single-cell proteomics defines the cellular heterogeneity of localized prostate cancer. *Cell Reports Medicine*, 3(4), 100604.

T. Okholm et al. (2022). A conserved immune trajectory of recovery in hospitalized COVID-19 patients. *bioRxiv*. doi.org/10.1101/2022.03.15.484467

E. Danenberg et al. (2022). Breast tumor microenvironment structures are associated with genomic features and clinical outcome. *Nature Genetics*, 1-10.

S. Singh et al. (2022). Chemotherapy coupled to macrophage inhibition induces T-cell and B-cell infiltration and durable regression in triple-negative breast cancer. Chemotherapy/macrophage inhibition leads to TNBC regression. *Cancer Research* 82(12).

A. Sinn et al. (2022). A randomized, double blind, single dose, comparative study of the pharmacokinetics, safety and immunogenicity of MB02 (bevacizumab biosimilar) and reference bevacizumab in healthy male volunteers. *British Journal of Clinical Pharmacology*, 88(3), 1063-1073.

B. Wolf et al. (2022). Therapeutic antibody glycosylation impacts antigen recognition and immunogenicity. *Immunology*. doi.org/10.1111/imm.13481

C. E. Burnett et al. (2022). A conserved immune trajectory of recovery in hospitalized COVID-19 patients. *bioRxiv*. doi.org/10.1101/2022.03.15.484467

S. K. Hotop et al. (2022). Peptide microarrays coupled to machine learning reveal individual epitopes from human antibody responses with neutralizing capabilities against SARS-CoV-2. *Emerging Microbes & Infections*, 1-37.

J. Leslie et al. (2022). CXCR2 inhibition enables NASH-HCC immunotherapy. *bioRxiv*. doi.org/10.1101/2022.02.24.481779

K. Vijayaragavan et al. (2022). Single-cell Spatial Proteomic Imaging for Human Neuropathology. doi.org/10.1101/2022.03.02.482730

C. Conzelmann et al. (2022). Virucidal activity of SARS-CoV-2 rapid antigen extraction buffers. *Journal of Clinical Virology*, 147, 105062.

M. Potempa et al (2022). Influence of Self-MHC Class I Recognition on the Dynamics of NK Cell Responses to Cytomegalovirus Infection. *The Journal of Immunology*, 208(7), 1742-1754.

X. Liu et al. (2022). Functional analysis of human circulating immune cells based on high-dimensional mass cytometry. *STAR Protocols*, 3(2), 101310.



- J. J. Melenhorst et al. (2022). Decade-long leukaemia remissions with persistence of CD4+ CAR T cells. *Nature*, 602(7897), 503-509.
- A. D. Sark et al. (2022). The Relationship between Plasma Alpha-1-Antitrypsin Polymers and Lung or Liver Function in ZZ Alpha-1-Antitrypsin-Deficient Patients. *Biomolecules*, 12(3), 380.
- Y. Zhang et al. (2022). Multi-Color Au/Ag Nanoparticles for Multiplexed Lateral Flow Assay Based on Spatial Separation and Color Co-Localization. *Advanced Functional Materials*, 32(7), 2109553.
- C. R. Gajera et al. (2022). Mass Synaptometry: Applying Mass Cytometry to Single Synapse Analysis. In *Synaptic Vesicles* (pp. 69-88). Humana, New York, NY.
- N. Guo et al. (2022). Mass Cytometric Analysis of Early-Stage Mycosis Fungoides. *Cells*, 11(7), 1062.
- S. Hirschberg et al. (2022). Uncoupling the Excitatory Amino Acid Transporter 2 From Its C-Terminal Interactome Restores Synaptic Glutamate Clearance at Corticostriatal Synapses and Alleviates Mutant Huntingtin-Induced Hypokinesia. *Frontiers in Cellular Neuroscience*, 15, 564
- H. Renk et al. (2022). Robust and durable serological response following pediatric SARS-CoV-2 infection. *Nature Communications*, 13(1), 1-11.
- T. Risom et al. (2022). Transition to invasive breast cancer is associated with progressive changes in the structure and composition of tumor stroma. *Cell*, 185(2), 299-310.
- J. B. Wing, & S. Sakaguchi (2022). Using Mass Cytometry to Address Tfh and Tfr Heterogeneity. In *T-Follicular Helper Cells* (pp. 47-57). Humana, New York, NY.
- E. F. McCaffrey et al. (2022). The immunoregulatory landscape of human tuberculosis granulomas. *Nature Immunology*, 1-12.
- S. Mohandas et al. (2022). Protective immunity of the primary SARS-CoV-2 infection reduces disease severity post re-infection with Delta variants in Syrian hamsters. *Viruses*, 14(3), 596.
- P. D. Yadav et al. (2022). Substantial immune response in Omicron infected breakthrough and unvaccinated individuals against SARS-CoV-2 variants of concerns. *The Journal of Infection*. doi.org/10.1101/2022.01.24.477043
- S. Kumari et al. (2022). Development and validation of novel kit for quantification of SARS-CoV-2 antibodies on clinical samples. *Journal of Virological Methods*, 300, 114423.
- S. Dickopf et al. (2022). Prodrug-Activating Chain Exchange (PACE) converts targeted prodrug derivatives to functional bi-or multispecific antibodies. *Biological chemistry*, 403(5-6), 495-508.
- M. Kusi et al. (2022). 2-Hydroxyglutarate destabilizes chromatin regulatory landscape and lineage fidelity to promote cellular heterogeneity. *Cell Reports*, 38(2), 110220.
- H. Jiang et al. (2022). Activating Immune Recognition in Pancreatic Ductal Adenocarcinoma via Autophagy Inhibition, MEK Blockade, and CD40 Agonism. *Gastroenterology*, 162(2), 590-603.
- G. Bauza-Mayol et al. (2022). Biomimetic Scaffolds Modulate the Posttraumatic Inflammatory Response in Articular Cartilage Contributing to Enhanced Neof ormation of Cartilaginous Tissue In Vivo. *Advanced Healthcare Materials*, 11(1), 2101127.
- P. Economopoulou, & L. De La Cruz-Merino (2022). Combination of Immunotherapy and Radiotherapy for Recurrent Malignant Gliomas: Results From a Prospective Study. *Immunology and Immunotherapy of Head and Neck Cancer*.
- J. Søndergaard et al. (2022). Regulatory T-cells are central hubs for age-, sex-and severity-associated cellular networks during COVID-19. medRxiv. Doi.org/10.1101/2022.01.06.22268711
- J. Wagner et al. (2022). Mass Cytometric and Transcriptomic Profiling of Epithelial-Mesenchymal Transitions in Human Mammary Cell Lines. *Scientific Data*, 9(1), 1-16.

- T. R. Matos et al. (2021). Maturation and Phenotypic Heterogeneity of Human CD4<sup>+</sup> Regulatory T Cells From Birth to Adulthood and After Allogeneic Stem Cell Transplantation. *Frontiers in immunology*, 11, 570550.
- S. Tumpara et al. (2021). Polymerization of misfolded Z alpha-1 antitrypsin protein lowers CX3CR1 expression in human PBMCs. *Elife*, 10, e64881.
- Y. Liu et al. (2021). Predominance of Distinct Autoantibodies in Response to SARS-CoV-2 Infection. *medRxiv*. doi.org/10.1101/2021.09.14.21263603
- J. D. Lickliter et al. (2021). A randomized, double-blind, parallel-group, single-dose comparative pharmacokinetic study of DRL\_TZ, a candidate biosimilar of trastuzumab, with Herceptin<sup>®</sup>(EU) in healthy adult males. *Indian Journal of Medical Research*, 154(3), 509-519.
- T. Eto et al. (2021). A randomized, single-dose, pharmacokinetic equivalence study comparing MB02 (proposed biosimilar) and reference bevacizumab in healthy Japanese male volunteers. *Cancer chemotherapy and pharmacology*, 88(4), 713-722.
- R. R. Sahay et al. (2021). SARS-CoV-2 Delta derivatives impact on neutralization of Covishield recipient sera. *bioRxiv*. doi.org/10.1101/2021.11.30.470521
- L. Weingärtner et al. (2021). The Effect of Collagen-I Coatings of 3D Printed PCL Scaffolds for Bone Replacement on Three Different Cell Types. *Applied Sciences*, 11(22), 11063.
- S. Mohandas et al. (2021). Immunogenicity and protective efficacy of BBV152: a whole virion inactivated SARS CoV-2 vaccine in the Syrian hamster model. *iScience*, 24(2), 102054.
- P. Yadav et al. (2021). Nipah virus outbreak in Kerala state, India amidst of COVID-19 pandemic. *medRxiv*. doi.org/10.1101/2021.12.09.21267278
- M. Röder et al. (2021). Improved Sensitivity of Allergen Detection by Immunoaffinity LC-MS/MS Using Ovalbumin as a Case Study. *Foods*, 10(12), 2932.
- S. Yu et al. (2021). Distinct immune signatures discriminate between asymptomatic and presymptomatic SARS-CoV-2pos subjects. *Cell research*, 31(11), 1148-1162.
- I. White et al. (2021). Bifunctional molecules targeting SARS-CoV-2 spike and the polymeric Ig receptor display neutralization activity and mucosal enrichment. In *mAbs* (Vol. 13, No. 1, p. 1987180). Taylor & Francis.
- Y. Liu et al. (2021). Paradoxical Sex-Specific Patterns of Autoantibodies Response to SARS-CoV-2 Infection. *Journal of Translational Medicine*, 19(1), 1-13.
- A. Athanasiou et al. (2021). A novel serum biomarker quintet reveals added prognostic value when combined with standard clinical parameters in prostate cancer patients by predicting biochemical recurrence and adverse pathology. *Plos one*, 16(11), e0259093.
- X. T. Zhang et al. (2021). A competitive ligand-binding assay for the detection of neutralizing antibodies against dostarlimab (TSR-042). *AAPS Open*, 7(1), 1-14.
- J. M. Chan et al. (2021). Signatures of plasticity, metastasis, and immunosuppression in an atlas of human small cell lung cancer. *Cancer Cell*, 39(11), 1479-1496.
- F. Rügner et al. (2021). Gold albumin Sandwich Structures for Enhanced Biosensing using Surface Plasmon Resonance. *physica status solidi (a)*, 218(13), 2100029.
- L. He et al. (2021). The effects of CD148 Q276P/R326Q polymorphisms in A431D epidermoid cancer cell proliferation and epidermal growth factor receptor signaling. *Cancer Reports*, e1566.
- B. Henrick et al. (2021). Bifidobacteria-mediated immune system imprinting early in life. *Cell* 184(15), 3884-3898.e11
- G. Bauza-Mayol et al. (2021). Biomimetic Scaffolds Modulate the Post-traumatic Inflammatory Response in Articular Car-

- tilage Contributing to Enhanced Neo-formation of Cartilaginous Tissue in Vivo. *Advanced Healthcare Materials*, 2101127.
- S. Fischer et al. (2021). Self-extracellular RNA promotes pro-inflammatory response of astrocytes to exogenous and endogenous danger signals. *Journal of Neuroinflammation*, 18(1), 1-13.
- H. C. Liu et al (2021). Potentiating antitumor efficacy through radiation and sustained intratumoral delivery of anti-CD40 and anti-PDL1. *International Journal of Radiation Oncology\* Biology\* Physics*, 110(2), 492-506.
- S. Ferrian et al. (2021). Multiplexed imaging reveals an IFN- $\gamma$ -driven inflammatory state in nivolumab-associated gastritis. *Cell Reports Medicine*, 2(10), 100419.
- S. E. de Jong et al. (2021). Systems analysis and controlled malaria infection in Europeans and Africans elucidate naturally acquired immunity. *Nature Immunology*, 22(5), 654-665.
- C. Mazziotta et al. (2021). Decreased IgG Antibody Response to Viral Protein Mimotopes of Oncogenic in Cell Polyomavirus in Sera From Healthy Elderly Subjects." *Frontiers in Immunology* (2021): 4206.
- M. Park et al. (2021). Valproic acid protects intestinal organoids against radiation via NOTCH signaling. *Cell Biology International*; 45(7), 1523-1532.
- D. Johnson et al. (2021). Sensitive assay design for detection of anti-drug antibodies to biotherapeutics that lack an immunoglobulin Fc domain. *Scientific Reports*, 11(1), 1-12.
- V. D. Gonzalez et al. (2021). High-grade serous ovarian tumor cells modulate NK cell function to create an immune-tolerant microenvironment. *Cell Reports*, 36(9), 109632.
- D. Junker et al. (2021). Reduced serum neutralization capacity against SARS-CoV-2 variants in a multiplex ACE2 RBD competition assay. *medRxiv*. doi.org/10.1101/2021.08.20.21262328
- M. Lehmann et al. (2021). Human small intestinal infection by SARS-CoV-2 is characterized by a mucosal infiltration with activated CD8+ T cells. *Mucosal Immunology*, 1-12.
- R. Kant et al. (2021). Serendipitous COVID-19 Vaccine-Mix in Uttar Pradesh, India: Safety and Immunogenicity Assessment of a Heterologous Regime. *medRxiv*. doi.org/10.1101/2021.08.06.21261716
- C. F. Fotis et al (2021). Accurate SARS-CoV-2 seroprevalence surveys require robust multi-antigen assays. *Scientific reports*, 11(1), 1-11.
- S. Mohandas et al. (2021). Comparison of the pathogenicity and virus shedding of SARS CoV-2 VOC 202012/01 and D614G variant in hamster model. *BioRxiv*. doi.org/10.1101/2021.02.25.432136
- H. Jiang et al. (2021). Combination of Immunotherapy and Radiotherapy for Recurrent Malignant Gliomas: Results From a Prospective Study. *Frontiers in immunology*, 12.
- H. Jiang et al. (2021). Activating Immune Recognition in Pancreatic Ductal Adenocarcinoma via Autophagy Inhibition, MEK blockade and CD40 Agonism. *Gastroenterology*, 162(2), 590-603.
- J. Chia et al. (2021). Increased potency of recombinant VWF D'D3 albumin fusion proteins engineered for enhanced affinity for coagulation factor VIII. *Journal of Thrombosis and Haemostasis*, 19(11), 2710-2725.
- C. Maucourant et al. (2021). NK Cell Responses in Zika Virus Infection Are Biased towards Cytokine-Mediated Effector Functions. *The Journal of Immunology*, 207(5), 1333-1343.
- A. Kaempffe et al. (2021). Effect of conjugation site and technique on the stability and pharmacokinetics of antibody-drug conjugates. *Journal of Pharmaceutical Sciences*, 110(12), 3776-3785.
- J. D. White et al. (2021). Renal Crest Proliferative Lesions in Cats with Chronic Kidney Disease. *Journal of Comparative Pathology*, 187, 52-62.
- H. Renk et al. (2021). Typically asymptomatic but with robust antibody formation: Children's unique humoral immune res-

ponse to SARS-CoV-2. doi.org/10.1101/2021.07.20.21260863

S. Mohandas (2021). SARS-CoV-2 Delta variant pathogenesis and host response in Syrian Hamsters. *Viruses*, 13(9), 1773.

S. Lu et al. (2021). An Integrated Analysis of Dostarlimab Immunogenicity. *The AAPS journal*, 23(5), 1-12.

L. Maritz et al (2021). Validation of high-throughput, semiquantitative solid phase SARS coronavirus-2 serology assays in serum and dried blood spot matrices. *Bioanalysis* 13(15), 1183-1193.

C. Mazziotta et al. (2021). Serum antibodies against the oncogenic Merkel Cell Polyomavirus detected by an innovative immunological assay with mimotopes in healthy subjects. *Frontiers in Immunology*, 12:676627.

C. Mazziotta et al. (2021). Significantly low levels of IgG antibodies against oncogenic merkel cell polyomavirus in sera from females affected by spontaneous abortion. *Frontiers in Microbiology*, 12:789991.

K. A. Dingess et al. (2021). Optimization of a human milk-directed quantitative sIgA ELISA method substantiated by mass spectrometry. *Analytical and Bioanalytical Chemistry*, 1-13.

M. Muftuoglu et al. (2021). Extended live-cell barcoding approach for multiplexed mass cytometry. *Scientific reports* 11(1), 1-13.

V. Sączyńska et al. (2021). A Novel Epitope-Blocking ELISA for Specific and Sensitive Detection of Antibodies Against H5-Subtype Influenza Virus Hemagglutinin. *Virology journal*, 18(1), 1-14.

G. Lomeli et al. (2021). Multiplexed Ion Beam Imaging Readout of Single-Cell Immunoblotting. *Analytical chemistry* 93, 24, 8517–8525.

L. Lutter et al. (2021). Homeostatic function and inflammatory activation of ileal CD8+ tissue-resident T cells is dependent on mucosal location. *Cellular and Molecular Gastroenterology and Hepatology*, 12(5), 1567-1581.

T. Y. Cheng et al. (2021). Detection of pseudorabies virus antibody in swine serum and oral fluid specimens using a recombinant gE glycoprotein dual-matrix indirect ELISA. *Journal of Veterinary Diagnostic Investigation*, 33(6), 1106-1114

M. M. Jørgensen et al. (2021). Optimization of High-Throughput Multiplexed Phenotyping of Extracellular Vesicles Performed in 96-Well Microtiter Plates. *Polymers*, 13(14), 2368.

D. M. Mrochen et al. (2021). Immune Polarization Potential of the *S. aureus* Virulence Factors SpIB and GlpQ and Modulation by Adjuvants. *Frontiers in immunology*, 12, 642802.

M. Park et al. (2021). A Patient-Derived Organoid-Based Radiosensitivity Model for the Prediction of Radiation Responses in Patients with Rectal Cancer. *Cancers*, 13(15), 3760.

P. Rosenbaum et al. (2021). Vaccine Inoculation Route Modulates Early Immunity and Consequently Antigen-Specific Immune Response. *Frontiers in immunology*, 12, 1362.

L. S. Levine et al. (2021). Single-cell analysis by mass cytometry reveals metabolic states of early-activated CD8+ T cells during the primary immune response. *Immunity*, 54(4), 829-844.

A. Bendes et al. (2021). Bead-Based Assays for Validating Proteomic Profiles in Body Fluids. In *Protein Microarrays for Disease Analysis* (pp. 65-78). Humana, New York, NY.

D. Banerjee et al. (2021). Modulation of implanted aortic scaffold-involvement of ECM and immune proteins. *bioRxiv*, 2020-11.

E. Sicherre et al. (2021). Non-Specific Binding, a Limitation of the Immunofluorescence Method to Study Macrophages In Situ. *Genes*, 12(5), 649.

M. Roussel, Mikaël et al. (2021). Comparative immune profiling of acute respiratory distress syndrome patients with or without SARS-CoV2 infection. *Cell Reports Medicine*: 100291.

- M. Ebert et al. (2021). Identification of a modified coagulation factor X with enhanced activation properties as potential hemostatic agent. *Blood Cells, Molecules, and Diseases* 89: 102570.
- S. Zankovic et al. (2021). A Method for the Evaluation of Early Osseointegration of Implant Materials Ex Vivo: Human Bone Organ Model. *Materials* 14.11: 3001.
- A. Voskamp et al. (2021). Nasal systems immunology identifies inflammatory and tolerogenic myeloid cells that determine allergic outcome following challenge. *medRxiv*: 2020-09.
- E. Torreggiani et al. (2021). Colorectal Carcinoma Affected Patients Are Significantly Poor Responders Against the Oncogenic JC Polyomavirus. *Frontiers in Immunology* 12: 1936.
- N. Reiners et al. (2021). Performance of a SARS CoV-2 antibody ELISA based on simultaneous measurement of antibodies against the viral nucleoprotein and receptor-binding domain. *European Journal of Clinical Microbiology & Infectious Diseases*, 1-5.
- H. Hayden et al. (2021). ELISA detection of MPO-DNA complexes in human plasma is error-prone and yields limited information on neutrophil extracellular traps formed in vivo. *PloS one*, 16(4), e0250265.
- M. Becker, et al (2021). Immune response to SARS-CoV-2 variants of concern in vaccinated individuals. *Nature Communications*, 12(1), 1-8.
- G. P. Anderson et al. (2021). Single-Domain Antibodies for the Detection of SARS-CoV-2 Nucleocapsid Protein. *Anal. Chem.* 2021, 93, 19, 7283–7291
- A. A. Urrutia et al. (2021). Inactivation of HIF-prolyl 4-hydroxylases 1, 2 and 3 in NG2-expressing cells induces HIF2-mediated neurovascular expansion independent of erythropoietin. *Acta Physiologica*, 231(1), e13547.
- C. Werner et al. (2021). Hsp70 in Liquid Biopsies—A Tumor-Specific Biomarker for Detection and Response Monitoring in Cancer. *Cancers*, 13(15), 3706.
- K. Barkovits et al (2021). Protein Quantification Using the “Rapid Western Blot” Approach. *Methods in Molecular Biology* (Clifton, NJ) 2228 (2021): 29-39.
- M. Oggioni et al (2021). Long pentraxin PTX3 is upregulated systemically and centrally after experimental neurotrauma, but its depletion leaves unaltered sensorimotor deficits or histopathology. *Scientific reports*, 11(1), 1-17.
- D. Lobinger et al (2021). Potential Role of Hsp70 and Activated NK Cells for Prediction of Prognosis in Glioblastoma Patients. *Frontiers in Molecular Biosciences*, 8, 435.
- F. J. Hartmann et al. (2021). Single-cell metabolic profiling of human cytotoxic T cells. *Nature biotechnology*, 39(2), 186-197.
- S. Chevrier et al. (2021). A distinct innate immune signature marks progression from mild to severe COVID-19. *Cell Reports Medicine*, 2(1), 100166.
- A. Shete et al (2021). A qualitative IgG ELISA for detection of SARS-CoV-2 specific antibodies in Syrian hamster serum samples. *STAR protocols*, 2(2).
- C. R. Good et al. (2021). An NK-like CAR T cell transition in CAR T cell dysfunction. *Cell*, 184(25), 6081-6100.
- G. Beyrend et al. (2021). OX40 agonism enhances efficacy of PD-L1 checkpoint blockade by shifting the cytotoxic T cell differentiation spectrum. *bioRxiv*. doi.org/10.1101/2021.12.24.474145
- R. Elaldi et al (2021). High Dimensional Imaging Mass Cytometry Panel to Visualize the Tumor Immune Microenvironment Contexture. *Frontiers in immunology*, 12, 1254.
- L. Couloume et al (2021). Mass cytometry identifies expansion of T-bet<sup>+</sup> B cells and CD206<sup>+</sup> monocytes in early multiple sclerosis. *Frontiers in Immunology*, 12: 653577.

- S. Fink et al. (2021). Multiplexed Serum Antibody Screening Platform Using Virus Extracts from Endemic Coronaviridae and SARS-CoV-2. *ACS Infectious Diseases*, 7(6), 1596-1606.
- N. Lidzba et al. (2021). Development of Monoclonal Antibodies against Pea Globulins for Multiplex Assays Targeting Legume Proteins. *Journal of Agricultural and Food Chemistry*, 69(9), 2864-2874.
- H. Kothari et al. (2021). Identification of human immune cell subtypes most responsive to IL-1 $\beta$ -induced inflammatory signaling using mass cytometry. *Science signaling*, 14(673), eabc5763.
- M. Nagayasu and K. Ozeki (2021). Combination of cassette-dosing and microsampling for reduced animal usage for antibody pharmacokinetics in cynomolgus monkeys, wild-type mice, and human FcRn transgenic mice. *Pharmaceutical Research*, 1-10.
- B. Wang et al. (2021). Development and validation of a triplex assay to study an antibody cocktail against Ebola virus in cynomolgus serum. *Bioanalysis*, 13(8), 631-640.
- S. Hirschberg et al. (2021). Expression of a modified astrocytic glutamate transporter alleviates Huntington's hypokinesia, promotes synaptic glutamate clearance and counteracts potentially adverse EAAT2 interactions. *bioRxiv*. doi.org/10.1101/2020.09.17.302158
- N. Ruetalo et al. (2021). Antibody Response against SARS-CoV-2 and Seasonal Coronaviruses in Nonhospitalized COVID-19 Patients. *Mosphere*, 6(1).
- S. Anandan et al. (2021). Phenotypic Characterization by Mass Cytometry of the Microenvironment in Ovarian Cancer and Impact of Tumor Dissociation Methods. *Cancers* 13.4:755.
- P. D. Yadav et al. (2021). Immunogenicity and protective efficacy of inactivated SARS-CoV-2 vaccine candidate, BBV152 in rhesus macaques. *Nature Communications* 12(1), 1-11.
- C. Künzel et al. (2021). Assay concept for detecting anti-drug IgM in human serum samples by using a novel recombinant human IgM positive control. *Bioanalysis*, 13(4), 253-263.
- S. Singh et al. (2021). Synergy of chemotherapy and macrophage depletion leads to T cell memory activation and durable triple negative breast cancer regression. *bioRxiv*. doi.org/10.1101/2021.02.22.432300
- E. Conti et al. (2021). Serum naturally occurring anti-TDP-43 auto-antibodies are increased in amyotrophic lateral sclerosis. *Scientific reports*, 11(1), 1-6.
- D. D. Canepa et al. (2021). Identification of ALP+/CD73+ defining markers for enhanced osteogenic potential in human adipose-derived mesenchymal stromal cells by mass cytometry. *Stem Cell Research & Therapy*, 12(1), 1-16.
- H. Y. Huang et al. (2021). Immunogenicity and Protective Activity of Pigeon Circovirus Recombinant Capsid Protein Virus-Like Particles (PiCV rCap-VLPs) in Pigeons (*Columba livia*) Experimentally Infected with PiCV. *Vaccines*, 9(2), 98.
- T. Risom et al. (2021). Transition to invasive breast cancer is associated with progressive changes in the structure and composition of tumor stroma. *Cell*, 185(2), 299-310.
- D. Simon et al (2020). Patients with immune-mediated inflammatory diseases receiving cytokine inhibitors have low prevalence of SARS-CoV-2 seroconversion. *Nature communications*, 11(1), 1-7.
- N. Ruetalo et al. (2020). Neutralizing antibody response in non-hospitalized SARS-CoV-2 patients. *Mosphere* 6.1.
- G. Sapkal et al. (2020). Development of indigenous IgG ELISA for the detection of anti-SARS-CoV-2 IgG. *The Indian journal of medical research*, 151(5), 444.
- L. Rodriguez et al. (2020). Systems-level immunomonitoring from acute to recovery phase of severe COVID-19. *Cell Reports Medicine*, 1(5), 100078.
- P. Yadav et al. (2020). Remarkable immunogenicity and protective efficacy of BBV152, an inactivated SARS-CoV-2 vaccine in rhesus macaques. *Nature research*. doi.org/10.21203/rs.3.rs-65715/v1

- L. Driouk et al. (2020). Chimeric antigen receptor T cells targeting NKG2D-ligands show robust efficacy against acute myeloid leukemia and T-cell acute lymphoblastic leukemia. *Frontiers in Immunology*, 11:580328.
- I. Holzer et al. (2020). GRN, NOTCH3, FN1, and PINK1 expression in eutopic endometrium—potential biomarkers in the detection of endometriosis—a pilot study. *Journal of Assisted Reproduction and Genetics*, 37(11), 2723-2732.
- K. de Ruiter et al. (2020). Helminth infections drive heterogeneity in human type 2 and regulatory cells. *Science translational medicine*, 12(524).fo
- Z. Li et al. (2020). The tissue-renin-angiotensin-system of the human intervertebral disc. *European Cells & Materials* 40:115-132.
- M. van Elsas et al. (2020). Host genetics and tumor environment determine the functional impact of neutrophils in mouse tumor models. *Journal for immunotherapy of cancer* 8.2
- K. Wulf et al. (2020). Smart releasing electrospun nanofibers—poly-L-lactide fibers as dual drug delivery system for biomedical application. *Biomedical Materials*
- S. Hirschberg et al. (2020). C-terminal-dependent control of EAAT2 signaling, corticostriatal synaptic glutamate clearance and spontaneous motor activity in mice with hypokinesia. *bioRxiv* doi.org/10.1101/2020.09.17.302158
- A. L. Ji et al. (2020). Multimodal analysis of composition and spatial architecture in human squamous cell carcinoma. *Cell*, 182(2), 497-514.
- B. M. Allen et al. (2020). Systemic dysfunction and plasticity of the immune macroenvironment in cancer models. *Nature Medicine* 26, 1125-1134.
- P.-Y. Chen et al. (2020). Smooth muscle cell reprogramming in aortic aneurysms. *Cell Stem Cell*, 26(4), 542-557.
- E. Vendrame et al. (2020). Profiling of the Human Natural Killer Cell Receptor-Ligand Repertoire. *JoVE (Journal of Visualized Experiments)*, (165), e61912.
- C. Warren et al. (2020). Decoding mitochondrial heterogeneity in single muscle fibres by imaging mass cytometry. *Sci Rep* 10, 15336 (2020).
- W. S. Chen et al. (2020). Uncovering axes of variation among single-cell cancer specimens. *Nature Methods*, 17(3), 302-310.
- E. F. McCaffrey et al. (2020). Multiplexed imaging of human tuberculosis granulomas uncovers immunoregulatory features conserved across tissue and blood. *bioRxiv*. doi.org/10.1101/2020.06.08.140426
- H. Q. Dinh et al. (2020). Coexpression of CD71 and CD117 Identifies an Early Unipotent Neutrophil Progenitor Population in Human Bone Marrow. *Immunity*, 53(2), 319-334.
- E. M. Thrash et al. (2020). High-Throughput Mass Cytometry Staining for Immunophenotyping Clinical Samples. *STAR Protocols*, 100055.
- A. Haraguchi et al. (2020). Hierarchy in the Avidity and Cross-reactivity of Anti-citrullinated Protein Antibodies in the Serum of Patients with Rheumatoid Arthritis. *bioRxiv* doi.org/10.21203/rs.3.rs-32917/v1
- N. Guo et al. (2020). A 34-Marker Panel for Imaging Mass Cytometric Analysis of Human Snap-Frozen Tissue. *Frontiers in immunology*, 11, 1466.
- O. Nicolai et al. (2020). Oxidation-Specific Epitopes (OSEs) Dominate the B Cell Response in Murine Polymicrobial Sepsis. *Frontiers in Immunology*, 11, 1570.
- M. S. Rahman et al. (2020). Glanders in horses in some selected areas of Bangladesh and comparison between CFT and Immunoblot used for the screening of glanders. *Indian Journal of Animal Research*, 54(5), 631-634.
- A. V. Pisapati et al. (2020). Characterizing Single-Molecule Conformational Changes Under Shear Flow with Fluorescence

Microscopy. Journal of visualized experiments: JoVE, (155).

M. Daher et al. (2020). CIS checkpoint deletion enhances the fitness of cord blood derived natural killer cells transduced with a chimeric antigen receptor. bioRxiv. doi.org/10.1101/2020.03.29.014472

A. S. Roy et al. (2020). SPCA1 governs the stability of TMEM165 in Hailey-Hailey disease. Biochimie, 174, 159-170.

Y. Yu et al. (2020). Metal-Labeled Aptamers as Novel Nanoprobes for Imaging Mass Cytometry Analysis. Analytical Chemistry, 92(9), 6312-6320.

M. J. Wirth et al. (2020). Expression Patterns of Chloride Transporters In The Auditory Brainstem Of Developing Chicken. Hearing Research, 108013.

S. H. Lee et al. (2020). Development of an immunoassay using recombinant outer membrane protein A and flagellin for diagnosis of goats with melioidosis. Journal of Veterinary Medical Science, 19-0072.

O. Broders et al. (2020). Novel bioanalytical method for the characterization of the immune response directed against a bispecific F (ab) fragment. Bioanalysis, 12(8), 509-517.

H. R. Ali et al. (2020). Imaging mass cytometry and multiplatform genomics define the phenogenomic landscape of breast cancer. Nature Cancer, 1(2), 163-175.

S. Kumar et al. (2020). Stabilized Reconstruction of Signaling networks from Single-cell cue-Response Data. Scientific Reports, 10(1), 1-9.

L. S.T. Rodriguez et al. (2020). Achieving symptom relief in patients with Myalgic encephalomyelitis by targeting the neuro-immune interface and inducing disease tolerance. bioRxiv. doi.org/10.1101/2020.02.20.958249

A. J. Wisdom et al. (2020). Single cell analysis reveals distinct immune landscapes in transplant and primary sarcomas that determine response or resistance to immunotherapy. Nature communications, 11(1), 1-14.

A. J. Wisdom et al. (2020). A single cell atlas reveals distinct immune landscapes in transplant and primary tumors that determine response or resistance to immunotherapy. doi.org/10.1101/2020.03.11.978387 bioRxiv.

J. D. Wade et al. (2020). Multidimensional single-cell modeling of cellular signaling. bioRxiv. doi.org/10.1101/2020.11.15.383711

L. S. Levine et al. (2020). Single-cell metabolic analysis by mass cytometry reveals distinct transitional states of CD8 T cell differentiation. bioRxiv. doi.org/10.1101/2020.01.21.911545

E. Friebel et al. (2020). Single-Cell Mapping of Human Brain Cancer Reveals Tumor-Specific Instruction of Tissue-Invasive Leukocytes. Cell 181 (7), 1626-1642.

T. Lakshmikanth et al. (2020). Human immune system variation during one year. Cell reports, 32(3), 107923.

A. Giannetti et al. (2020). Towards an Integrated System as Point-of-Care Device for the Optical Detection of Sepsis Biomarkers. Chemosensors, 8(1), 12.

E. Mazzoni et al. (2020). Specific antibodies reacting to JC polyomavirus capsid protein mimotopes in sera from multiple sclerosis and other neurological diseases-affected patients. Journal of Cellular Physiology, 235(7-8), 5847-5855.

N. Aubert et al. (2020). Characterization of a regulatory T cells molecular meta-signature identifies the pro-enkephalin gene as a novel marker in mice. bioRxiv, 638072.

G. K. Behbehani et al. (2020). Profiling myelodysplastic syndromes by mass cytometry demonstrates abnormal progenitor cell phenotype and differentiation. Cytometry Part B: Clinical Cytometry.

J. Schiefer et al. (2020). Regulation of histamine and diamine oxidase in patients undergoing orthotopic liver transplantation. Scientific Reports, 10(1), 1-8.

A. Hey et al. (2020). Simulect™ as a model compound for assessing placental transfer of monoclonal antibodies in mini-



pigs. *Reproductive Toxicology*, 91, 142-146.

A. J. Basile et al. (2020). Development of diagnostic microsphere-based immunoassays for Heartland virus. *Journal of Clinical Virology* (2020): 104693.

F. W. Richter et al. (2020). Subcutaneous Site-of-Absorption Study with the Monoclonal Antibody Tocilizumab in Minipigs: Administration Behind Ear Translates Best to Humans. *The AAPS Journal* 22.3 (2020): 63-63.

R. Surtees et al. (2020). Development of a multiplex microsphere immunoassay for the detection of antibodies against highly pathogenic viruses in human and animal serum samples. *PLOS Neglected Tropical Diseases* 14.10 (2020): e0008699.

F. Hartmann et al. (2020). Multiplexed Single-cell Metabolic Profiles Organize the Spectrum of Human Cytotoxic T Cells. *bioRxiv*. doi.org/10.1101/2020.01.17.909796

M. Park et al. (2020). Butyrate enhances the efficacy of radiotherapy via FOXO3A in colorectal cancer patient derived organoids. *International journal of oncology* 57.6: 1307-1318.

V. Laversenne et al. (2020). Anti-A $\beta$  antibodies bound to neuritic plaques enhance microglia activity and mitigate tau pathology. *Acta neuropathologica communications* 8.1: 1-19.

T. Phongpreecha et al. (2020). Single-cell peripheral immunoprofiling of Alzheimer's and Parkinson's diseases. *Science Advances* 6.48: eabd5575.

C. Bruckmann et al. (2020). Mapping the native interaction surfaces of PREP1 with PBX1 by cross-linking mass-spectrometry and mutagenesis. *Scientific reports* 10.1: 1-18.

B. Emde et al. (2020). Microfluidic-Based Detection of AML-Specific Biomarkers Using the Example of Promyelocyte Leukemia. *International Journal of Molecular Sciences* 21.23: 8942.

M. Kusi et al. (2020). Single-cell chromatin profiling reveals demethylation-dependent metabolic vulnerabilities of breast cancer epigenome. *bioRxiv*. doi.org/10.1101/2020.02.18.954495

K. Rezvani et al. (2020). CIS checkpoint deletion enhances the fitness of cord blood derived natural killer cells transduced with a chimeric antigen receptor. *bioRxiv*. doi.org/10.1101/2020.03.29.014472

B. Sahaf et al. (2020). High-Parameter Immune Profiling with CyTOF. In *Biomarkers for Immunotherapy of Cancer* (pp. 351-368). Humana, New York, NY.

C. Wang et al. (2020). Imaging Mass Cytometric Analysis of Postmortem Tissues Reveals Dysregulated Immune Cell and Cytokine Responses in Multiple Organs of COVID-19 Patients. *Frontiers in Microbiology*, 11:600989.

M. E. Ijsselsteijn et al. (2020). Semi-automated background removal limits loss of data and normalises the images for downstream analysis of imaging mass cytometry data. *bioRxiv*. doi.org/10.1101/2020.11.26.399717

A. Rackow et al. (2019). Immunoglobulin-like Domain of Hs Fc $\mu$ R as a Capture Molecule for Detection of Crimean-Congo Hemorrhagic Fever Virus-and Zika Virus-Specific IgM Antibodies. *Clinical Chemistry*, 65(3), 451-461.

J. Mikes et al. (2019). Automated Cell Processing for Mass Cytometry Experiments. In *Mass Cytometry* (pp. 111-123). Humana, New York, NY.

M. E. Ijsselsteijn et al. (2019). A 40-Marker Panel for High Dimensional Characterization of Cancer Immune Microenvironments by Imaging Mass Cytometry. *Frontiers in immunology*, 10, 2534.

Z. Li et al. (2019). High-dimensional single-cell proteomics analysis reveals the landscape of immune cells and stem-like cells in renal tumors. *Journal of Clinical Laboratory Analysis*, e23155.

M. Schaefer et al. (2019). Allosteric Inhibition as a new mode of Action for BAY 1213790, a Neutralizing Antibody Targeting the Activated form of Coagulation Factor XI. *Journal of Molecular Biology*, 431(24), 4817-4833.

- Dt. T. Mourya et al. (2019). Crimean Congo hemorrhagic fever serosurvey in humans for identifying high-risk populations and high-risk areas in the endemic state of Gujarat, India. *BMC infectious diseases*, 19(1), 104.
- P. D. Yadav et al. (2019). Kinetics of viral RNA, immunoglobulin-M & G antibodies in Kyasanur forest disease. *The Indian journal of medical research*, 150(2), 186.
- S. Kalme et al. (2019). A hydrogel sensor-based microfluidic platform for the quantitative and multiplexed detection of fertility markers for point-of-care immunoassays. *Analytical methods*, 11(12), 1639-1650.
- S. Schemmert et al. (2019). A $\beta$  Oligomer Elimination Restores Cognition in Transgenic Alzheimer's Mice with Full-blown Pathology. *Molecular neurobiology*, 56(3), 2211-2223.
- C.-C. S. Pai et al. (2019). Clonal deletion of tumor-specific T cells by interferon- $\gamma$  confers therapeutic resistance to combination immune checkpoint blockade. *Immunity*, 50(2), 477-492.
- S. Rixen et al. (2019). Mitochondrial amidoxime-reducing component 2 (mARC2) has a significant role in N-reductive activity and energy metabolism. *Journal of Biological Chemistry*, 294(46), 17593-17602.
- C. Park et al. (2019). The landscape of myeloid and astrocyte phenotypes in acute multiple sclerosis lesions. *Acta neuropathologica communications*, 7(1), 130.
- C. Stiller et al. (2019). Fast and efficient Fc-specific photoaffinity labelling to produce antibody-DNA-conjugates. *Bioconjugate chemistry*, 30(11), 2790-2798.
- A. R. Schulz et al. (2019). Stabilizing Antibody Cocktails for Mass Cytometry. *Cytometry Part A*, 95(8), 910-916.
- Y. Wang et al. (2019). Shear-Induced Extensional Response Behaviors of Tethered von Willebrand Factor. *Biophysical journal* 116(11), 2092-2102.
- E. Le Rhun et al. (2019). Profound, durable and MGMT-independent sensitivity of glioblastoma cells to cyclin-dependent kinase inhibition. *International journal of cancer*, 145(1), 242-253.
- B. M. Allen et al. (2019). The Development, Function, and Plasticity of the Immune Macroenvironment in Cancer. *bioRxiv*, 805473.
- H. O. Mayr et al. (2019). Immunohistochemical examination in arthrofibrosis of the knee joint. *Archives of orthopaedic and trauma surgery*, 139(3), 383-391.
- C. Vonarburg et al. (2019). Topical application of nebulized human IgG, IgA and IgAM in the lungs of rats and non-human primates. *Respiratory research*, 20(1), 99.
- G. P. Anderson et al. (2019). Oriented Immobilization of Single-Domain Antibodies Using SpyTag/SpyCatcher Yields Improved Limits of Detection. *Analytical chemistry*, 91(15), 9424-9429.
- M. T. Odinolfi et al. (2019). Clickable cellulosic surfaces for peptide-based bioassays. *Talanta*, 205, 120152.
- X.-K. Lun et al. (2019). Analysis of the Human Kinome and Phosphatome by Mass Cytometry Reveals Overexpression-Induced Effects on Cancer-Related Signaling. *Molecular Cell*, 74, 1-17.
- N. Yucel et al. (2019). Glucose Metabolism Drives Histone Acetylation Landscape Transitions that Dictate Muscle Stem Cell Function. *Cell reports*, 27(13), 3939-3955.
- W. S. Chen et al. (2019). Embedding single-cell experimental conditions to reveal manifold structure of cancer drug perturbation effects. *Nature Methods* volume 17,302–310.
- J. Harnoš et al. (2019). Dishevelled-3 conformation dynamics analyzed by FRET-based biosensors reveals a key role of casein kinase 1. *Nature communications*, 10(1), 1804.
- L. Keren et al. (2019). MIBI-TOF: A multiplexed imaging platform relates cellular phenotypes and tissue structure. *Science Advances*, 5(10), eaax5851.

- E. R. Hannon et al. (2019). Bloodmeal Host Selection of *Culex quinquefasciatus* (Diptera: Culicidae) in Las Vegas, Nevada, United States. *Journal of medical entomology*, 56(3), 603-608.
- C. W. Pohlmeyer et al. (2019). Identification of NK Cell Subpopulations That Differentiate HIV-Infected Subject Cohorts with Diverse Levels of Virus Control. *Journal of Virology*, 93(7), e01790-18.
- D. Schulz et al. (2019). In-Depth Characterization of Monocyte-Derived Macrophages using a Mass Cytometry-Based Phagocytosis Assay. *Scientific reports*, 9(1), 1925.
- R. Hüttenhain et al. (2019). A targeted mass spectrometry strategy for developing proteomic biomarkers: a case study of epithelial ovarian cancer. *Molecular & Cellular Proteomics*, 18(9), 1836-1850.
- E. Ueberham et al. (2019). Simplified Tracking of a Soy Allergen in Processed Food Using a Monoclonal Antibody-Based Sandwich ELISA Targeting the Soybean 2S Albumin Gly m 8. *Journal of agricultural and food chemistry*, 67(31), 8660-8667.
- F. J. Hartmann et al. (2019). Comprehensive immune monitoring of clinical trials to advance human immunotherapy. *Cell reports*, 28(3), 819-831.
- Z. Baird et al. (2019). Enumeration of Rare Cells in Whole Blood by Signal Ion Emission Reactive Release Amplification with Same-Sample RNA Analysis. *Analytical chemistry*, 91(3), 2028-2034.
- U. Wessels et al. (2019). Use of Ella<sup>®</sup> to facilitate drug quantification and antidrug antibody detection in preclinical studies. *Bioanalysis*, 11(03), 153-164.
- V. S. Josyula et al. (2019). Systems-level immunomonitoring using self-sampled capillary blood. *bioRxiv*, 694521.
- J. K. Starzyński et al. (2019). The effect of ROR $\alpha$  expression on the development of biological malignancy of urinary bladder cancer. *Medical Research Journal* 4(3):129-135.
- J. Hong et al. (2019). Correlation between the results of two analytical methods for measuring measles virus neutralizing antibodies in source plasma and therapeutic immunoglobulin products. *Biologicals*, 59, 20-28.
- S. G. Chang and C. J. Guidos (2019). Method for Tagging Antibodies with Metals for Mass Cytometry Experiments. In *Mass Cytometry* (pp. 47-54). Humana, New York, NY.
- T. Lakshmikanth and P. Brodin (2019). Systems-Level Immune Monitoring by Mass Cytometry. In *Immune Checkpoint Blockade* (pp. 33-48). Humana Press, New York, NY.
- J. Mikes et al. (2019). Automated Cell Processing for Mass Cytometry Experiments. In *Mass Cytometry* (pp. 111-123). Humana, New York, NY.
- A. Tagliapietra et al. (2019). Footprints of BK and JC polyomaviruses in specimens from females affected by spontaneous abortion. *Human Reproduction*, 34 (3), 433-440.
- H. Tang et al. (2019). Development and validation of a multiplexed drug level assay in support of combination biologics therapy clinical studies. *Journal of pharmaceutical and biomedical analysis*, 171, 204-211.
- E. Mazzoni et al. (2019). Antibodies reacting to mimotopes of Simian virus 40 large T antigen, the viral oncoprotein, in sera from children. *Journal of cellular physiology*, 234(4), 3170-3179.
- J. Wagner et al. (2019). A Single-Cell Atlas of the Tumor and Immune Ecosystem of Human Breast Cancer. *Cell*, 177(5), 1330-1345.
- P. Leblebici et al. (2019). Encoded particle microfluidic platform for rapid multiplexed screening and characterization of aptamers against influenza A nucleoprotein. *Analytica chimica acta*, 1053, 70-80.
- G. Bergamaschi et al. (2019). Computational Analysis of Dengue Virus Envelope Protein (E) Reveals an Epitope with Flavivirus Immunodiagnostic Potential in Peptide Microarrays. *International Journal of Molecular Sciences*, 20(8), 1921.

- M. V. D. Falcão et al. (2019). Development and standardization of a western blotting test for detection of antibodies against *B. abortus*. *Arquivo Brasileiro de Medicina Veterinária e Zootecnia*, 71(1), 160-166.
- A. A. Othman et al. (2019). Pharmacokinetics, Safety, and Tolerability of the Dual Inhibitor of Tumor Necrosis Factor- $\alpha$  and Interleukin 17A, ABBV-257, in Healthy Volunteers and Patients with Rheumatoid Arthritis. *Clinical pharmacology in drug development* 8(4), 492-502.
- Y. P. Zhu et al. (2019). Preparation of Whole Bone Marrow for Mass Cytometry Analysis of Neutrophil-lineage Cells. *J. Vis. Exp.* (148).
- C. J. Guo et al. (2019). Depletion of microbiome-derived molecules in the host using *Clostridium* genetics. *Science*, 366(6471).
- F. Voß et al. (2018). Intranasal vaccination with lipoproteins confers protection against pneumococcal colonisation. *Frontiers in immunology*, 9, 2405.
- R. Capelli et al. (2018). BPSL1626: Reverse and Structural Vaccinology Reveal a Novel Candidate for Vaccine Design against *Burkholderia pseudomallei*. *Antibodies*, 7(3), 26.
- A. Gulbins et al. (2018). Antidepressants act by inducing autophagy controlled by sphingomyelin–ceramide. *Molecular psychiatry*, 23(12), 2324-2346.
- P. J. Meakin et al. (2018). The beta secretase BACE1 regulates the expression of insulin receptor in the liver. *Nature communications*, 9(1), 1306.
- Y. P. Zhu et al. (2018). Identification of an Early Unipotent Neutrophil Progenitor with Pro-tumoral Activity in Mouse and Human Bone Marrow. *Cell reports*, 24(9), 2329-2341.
- L. Keren et al. (2018). A structured tumor-immune microenvironment in triple negative breast cancer revealed by multiplexed ion beam imaging. *Cell*, 174(6), 1373-1387.
- J. Harnoš et al. (2018). Analysis of binding interfaces of the human scaffold protein AXIN1 by peptide microarrays. *Journal of Biological Chemistry*, 293(42), 16337-16347.
- F. J. Hartmann et al. (2018). A Universal Live Cell Barcoding-Platform for Multiplexed Human Single Cell Analysis. *Scientific reports*, 8(1), 10770.
- S. Krishnaswamy et al. (2018). Learning time-varying information flow from single-cell epithelial to mesenchymal transition data. *PloS one*, 13(10), e0203389.
- Z. Wang et al. (2018).  $\beta$ -Bourbonene attenuates proliferation and induces apoptosis of prostate cancer cells. *Oncology letters*, 16(4), 4519-4525.
- T. Wielkoszynski et al. (2018). Novel diagnostic ELISA test for discrimination between infections with *Yersinia enterocolitica* and *Yersinia pseudotuberculosis*. *European Journal of Clinical Microbiology & Infectious Diseases*, 37(12), 2301-2306.
- F. Rürger et al. (2018). A Novel N-Substituted Pyrrole Based Surface Modification for Biosensing. *physica status solidi (a)*, 215(15), 1800030.
- B. Bengsch et al. (2018). Deep immune profiling by mass cytometry links human T and NK cell differentiation and cytotoxic molecule expression patterns. *Journal of immunological methods*, 453, 3-10.
- S. Laban et al. (2018). Heterogeneity of circulating CD8 T-cells specific to islet, neo-antigen and virus in patients with type 1 diabetes mellitus. *PloS one*, 13(8), e0200818.
- Y. Chen et al. (2018). Continuous Immune Cell Differentiation Inferred From Single-Cell Measurements Following Allogeneic Stem Cell Transplantation. *Frontiers in Molecular Biosciences*, 5:81.
- S. J. Santegoets et al. (2018). The anatomical location shapes the immune infiltrate in tumors of same etiology and affects survival. *Clinical Cancer Research*, 25(1), 240-252.

- I. Bononi et al. (2018). High prevalence of serum IgG antibodies reacting to specific mimotopes of BK polyomavirus, a human oncogenic polyomavirus, in patients affected by uveal melanoma. *Journal of cellular physiology*, 233(12), 9052-9059.
- E. Mazzoni et al. (2018). Serum antibodies against Simian Virus 40 Large T antigen, the viral oncoprotein, in osteosarcoma patients. *Frontiers in cell and developmental biology*, 6, 64.
- N. Keat et al. (2018). A Microdose PET Study of the Safety, Immunogenicity, Biodistribution, and Radiation Dosimetry of 18F-FB-A20FMDV2 for Imaging the Integrin  $\alpha\beta 6$ . *Journal of nuclear medicine technology*, 46(2), 136-143.
- M. Myzithras et al. (2018). Optimizing NBE PK/PD assays using the Gyrolab Affinity Software; conveniently within the bioanalyst's existing workflow. *Bioanalysis*, 10(6), 397-406.
- P. J. Meakin et al. (2018). The beta secretase BACE1 regulates the expression of insulin receptor in the liver. *Nature communications*, 9(1), 1306.
- F. A. P. Vatter et al. (2018). High-Dimensional Phenotyping Identifies Age-Emergent Cells in Human Mammary Epithelia. *Cell reports*, 23(4), 1205-1219.
- B. Ajami et al. (2018). Single-cell mass cytometry reveals distinct populations of brain myeloid cells in mouse neuroinflammation and neurodegeneration models. *Nature neuroscience*, 21(4), 541.
- P. Velicky et al. (2018). Pregnancy-associated diamine oxidase originates from extravillous trophoblasts and is decreased in early-onset preeclampsia. *Scientific reports*, 8(1), 6342.
- K. Schmoeckel et al. (2018). Polymicrobial sepsis and non-specific immunization induce adaptive immunosuppression to a similar degree. *PloS one*, 13(2), e0192197.
- M. A. Rapsomaniki et al. (2018). CellCycleTRACER accounts for cell cycle and volume in mass cytometry data. *Nature communications*, 9(1), 632.
- O. Poetz et al. (2018). Peptide-Based Sandwich Immunoassay for the Quantification of the Membrane Transporter Multi-drug Resistance Protein 1. *Analytical chemistry*, 90(9), 5788-5794.
- U. Wessels et al. (2018). Immunogenicity testing of therapeutic antibodies in ocular fluids after intravitreal injection. *Bioanalysis*, 10(11), 803-814.
- Y. Wu et al. (2018). Development of an alpha-fetoprotein and Golgi protein 73 multiplex detection assay using xMAP technology. *Clinica Chimica Acta*, 482, 209-214.
- J. W. Mueller et al. (2018). Human DHEA sulfation requires direct interaction between PAPS synthase 2 and DHEA sulfotransferase SULT2A1. *Journal of Biological Chemistry*, 293(25), 9724-9735.
- G. Dzangué-Tchoupou et al. (2018). Analysis of cell surface and intranuclear markers on non-stimulated human PBMC using mass cytometry. *PloS one*, 13(3), e0194593.
- I. Bononi et al. (2018). Serum IgG antibodies from healthy subjects up to 100 years old react to JC polyomavirus. *Journal of cellular physiology*, 233(8), 5513-5522.
- M. Alasel et al. (2018). Development of a borreliosis assay: Mannan coated polyethylene sinter bodies as a new platform technology. *Analytical biochemistry*, 543, 55-61.
- D. H. Kwon et al. (2018). Comparing the genetic diversity and structure of indigenous Korean and Chinese populations of *Laodelphax striatellus* Fallén using mitochondrial haplotypes. *Journal of Asia-Pacific Entomology*, 21(1), 233-238.
- S. Gogalic et al. (2018). Investigating Colorimetric Protein Array Assay Schemes for Detection of Recurrence of Bladder Cancer. *Biosensors*, 8(1), 10.
- K. Schmoeckel et al. (2018). Polymicrobial sepsis and non-specific immunization induce adaptive immunosuppression to a similar degree. *PLoS ONE*, 13(2), e0192197.

- T. Lakshmikanth et al. (2017). Mass cytometry and topological data analysis reveal immune parameters associated with complications after allogeneic stem cell transplantation. *Cell reports*, 20(9), 2238-2250.
- X. K. Lun et al. (2017). Influence of node abundance on signaling network state and dynamics analyzed by mass cytometry. *Nature biotechnology*, 35(2), 164-172.
- S. Krishnaswamy et al. (2017). Learning Edge Rewiring in EMT from Single Cell Data. *bioRxiv*, 155028. doi.org/10.1101/155028
- K. Kravchenko et al. (2017). Analysis of anticoagulants for blood-based quantitation of amyloid  $\beta$  oligomers in the sFIDA assay. *Biological chemistry*, 398(4), 465-475.
- Z. Djaoud et al. (2017). Two alternate strategies for innate immunity to Epstein-Barr virus: One using NK cells and the other NK cells and  $\gamma\delta$  T cells. *Journal of Experimental Medicine*, jem-20161017.
- G. Han et al. (2017). Atomic mass tag of bismuth-209 for increasing the immunoassay multiplexing capacity of mass cytometry. *Cytometry Part A*, 91(12), 1150-1163.
- A. Filomena et al. (2017). Development of a Bead-Based Multiplex Assay for the Analysis of the Serological Response against the Six Pathogens HAV, HBV, HCV, CMV, T. gondii, and H. pylori. *High-Throughput*, 6(4), 14.
- A. Filomena et al. (2017). Study of the Humoral Immune Response towards HCV Genotype 4 Using a Bead-Based Multiplex Serological Assay. *High-Throughput*, 6(4), 15.
- C. Y. Kwak et al. (2017). Enhancing the sialylation of recombinant EPO produced in CHO cells via the inhibition of glycosphingolipid biosynthesis. *Scientific reports*, 7(1), 13059.
- K. Staufer et al. (2017). The non-invasive serum biomarker soluble Axl accurately detects advanced liver fibrosis and cirrhosis. *Cell death & disease*, 8(10), e3135.
- Pugia, M. et al. (2017). Automated Microfluidic Filtration and Immunocytochemistry Detection System for Capture and Enumeration of Circulating Tumor Cells and Other Rare Cell Populations in Blood. In *Circulating Tumor Cells* (pp. 119-131). Humana Press, New York, NY.
- T. K. Sigdel and M. M. Sarwal, (2017). Discovery of Immune Reactive Human Proteins by High-Density Protein Arrays and Customized Validation of Potential Biomarkers by ELISA. In *Tissue Proteomics* (pp. 11-21). Humana Press, New York, NY.
- Y. Kaiser et al. (2017). Mass Cytometry Identifies Distinct Lung CD4+ T Cell Patterns in Löfgren's Syndrome and Non-Löfgren's Syndrome Sarcoidosis. *Frontiers in Immunology*, 8, 1130.
- M. Dengler et al. (2017). Soluble Axl is an accurate biomarker of cirrhosis and hepatocellular carcinoma development: results from a large scale multicenter analysis. *Oncotarget*, 8(28), 46234.
- M. T. Ghori et al. (2017). Seroprevalence and risk factors of glanders in working equines—Findings of a cross-sectional study in Punjab province of Pakistan. *Acta Tropica*, 176, 134-139.
- K. Endt et al. (2017). Development and clinical testing of individual immunoassays for the quantification of serum glycoproteins to diagnose prostate cancer. *PLoS one*, 12(8), e0181557.
- K. Leirs et al. (2017). Fast multiplex analysis of antibodies in complex sample matrix using the microfluidic Evaluation™ platform. *Analytica chimica acta*, 982, 193-199.
- S. Baumgart et al. (2017). Dual-labelled antibodies for flow and mass cytometry: A new tool for cross-platform comparison and enrichment of target cells for mass cytometry. *European journal of immunology* 47(8), 1377-1385.
- A. Stikvoort et al. (2017). Combining Flow and Mass Cytometry in the Search for Biomarkers in Chronic Graft-versus-Host Disease. *Frontiers in Immunology*, 8:717.
- U. Wessels et al. (2017). Novel drug and soluble target tolerant antidrug antibody assay for therapeutic antibodies bearing

the P329G mutation. *Bioanalysis*, 9(11), 849-859.

M. Roussel et al. (2017). Mass cytometry deep phenotyping of human mononuclear phagocytes and myeloid-derived suppressor cells from human blood and bone marrow. *Journal of leukocyte biology*, 102(2), 437-447.

E. Mazzoni et al. (2017). Serum IgG antibodies from pregnant women reacting to mimotopes of Simian Virus 40 large T antigen, the viral oncoprotein. *Frontiers in Immunology*, 8:411.

E. Mazzoni et al. (2017). High prevalence of antibodies reacting to mimotopes of Simian virus 40 large T antigen, the oncoprotein, in serum samples of patients affected by non-Hodgkin lymphoma. *Cancer Immunology, Immunotherapy*, 1-10.

D. Schulz et al. (2017). Laboratory Mice Are Frequently Colonized with *Staphylococcus aureus* and Mount a Systemic Immune Response—Note of Caution for In vivo Infection Experiments. *Frontiers in Cellular and Infection Microbiology*, 7: 152.

T. Boehm et al. (2017). Quantification of human diamine oxidase. *Clinical Biochemistry*, 50(7-8), 444-451.

X. K. Lun et al. (2017). Influence of node abundance on signaling network state and dynamics analyzed by mass cytometry. *Nature Biotechnology* 35, 164–172.

E. Porpiglia et al. (2017). High-resolution myogenic lineage mapping by single-cell mass cytometry. *Nature Cell Biology* 19(5), 558-567.

M. H. Spitzer et al. (2017). Systemic Immunity Is Required for Effective Cancer Immunotherapy. *Cell*, 168(3), 487-502.

K. E. Diggins et al. (2017). Characterizing cell subsets using marker enrichment modeling. *Nature Methods*, 14(3), 275-278.

H. Schneider et al. (2017). Novel TIE-2 Inhibitor BAY-826 Displays In Vivo Efficacy in Experimental Syngeneic Murine Glioma Models. *Journal of Neurochemistry*, 140(1), 170-182.

J. Blazkova et al. (2017). Multicenter systems analysis of human blood reveals immature neutrophils in males and during pregnancy. *The Journal of Immunology*, 198(6), 2479-2488.

D. Chaussabel et al. (2017). Multicenter Systems Analysis of Human Blood Reveals Immature Neutrophils in Males and During Pregnancy. *The Journal of Immunology*, 198(6), 2479-2488.

S. Pietrobon et al. (2017). Specific IgG antibodies react to mimotopes of BK Polyomavirus, a small DNA tumor virus, in healthy adult sera. *Frontiers in Immunology*, 8, 236.

C. He et al. (2017). High-resolution imaging and quantification of plasma membrane cholesterol by NanoSIMS. *Proceedings of the National Academy of Sciences*, 201621432.

E. Mazzoni et al. (2017). Antibodies Against Mimotopes of Simian Virus 40 Large T Antigen, the Oncoprotein, in Serum Samples From Elderly Healthy Subjects. *Journal of cellular physiology*, 232(1), 176-181.

G. Jordan et al. (2017). 3-(4-Hydroxyphenyl) propionic acid: the forgotten detection substrate for ligand-binding assay-based bioanalysis. *Bioanalysis*, 9(4), 407-418.

S. Pöhlmann et al. (2017). Detection systems for antibody responses against herpes B virus. *Primate Biology*, 4(1), 9.

F. Schmidt et al. (2017). Characterization of human and *Staphylococcus aureus* proteins in respiratory mucosa by in vivo- and immunoproteomics. *Journal of Proteomics*, 155, 31-39.

L. Mattsson et al. (2017). Modified carbon black as label in a colorimetric on-chip immunoassay for histamine. *Sensors and Actuators B: Chemical*. 246 (2017): 1092-1099.

F. Nocini et al. (2017). Antibodies Against Mimotopes of Simian Virus 40 Large T Antigen, the Oncoprotein, in Serum Samples From Elderly Healthy Subjects. *Journal of cellular physiology*, 232 (1), 176-181.

- J. Fock et al. (2017). Comparison of optomagnetic and AC susceptibility readouts in a magnetic nanoparticle agglutination assay for detection of C-reactive protein. *Biosensors and Bioelectronics*, 88, 94–100.
- A. Corneau et al. (2017). Comprehensive mass cytometry analysis of cell cycle, activation and co-inhibitory receptors expression in CD4 T cells from healthy and HIV-infected individuals. *Cytometry Part B: Clinical Cytometry* 92(1), 21-32.
- K. Kühbach et al. (2016). Application of an Amyloid Beta Oligomer Standard in the sFIDA Assay. *Frontiers in neuroscience*, 10, 8.
- M. Dengler et al. (2016). Accurate Determination of Soluble Axl by Enzyme-Linked Immunosorbent Assay. *ASSAY and Drug Development Technologies*, 14(9), 543-550.
- K. Schlack et al. (2016). Early Prediction of Therapy Response to Abiraterone Acetate Using PSA Subforms in Patients with Castration Resistant Prostate Cancer. *International Journal of Molecular Sciences*, 17(9), 1520.
- J. Striffler et al. (2016). Replication of Polymer-Based Peptide Microarrays by Multi-Step Transfer. *ChemNanoMat*, 2(9), 897-903.
- K. Kleinsteuber et al. (2016). Standardization and quality control for high-dimensional mass cytometry studies of human samples. *Cytometry Part A*, 89(10), 903-913.
- S. Kiesgen et al. (2016). Bypassing nonparallelism of a monoclonal antibody ligand-binding assay by employment of alternative assay formats. *Bioanalysis*, 8(24), 2581-2593.
- A. Ulčinas et al. (2016). Detection and photothermal actuation of microcantilever oscillations in air and liquid using a modified DVD optical pickup. *Sensors and Actuators A: Physical*, 248, 6-9.
- C. A. Mandon et al. (2016). Adding biomolecular recognition capability to 3D printed objects. *Anal. Chem.*, 2016, 88 (21), 10767–10772
- S. Vordenbümen et al. (2016). Sequential high-content profiling of the IgG-autoantibody repertoire reveals novel antigens in rheumatoid arthritis. *Arthritis research & therapy*, 18(1), 235.
- U. Wessels et al. (2016). Detection of antidrug antibodies against human therapeutic antibodies lacking Fc-effector functions by usage of soluble Fcγ receptor I. *Bioanalysis*, 8(20), 2135-2145.
- J. Hu et al. (2016). Oxidative cleavage of some cellulosic substrates by auxiliary activity (AA) family 9 enzymes influences the adsorption/desorption of hydrolytic cellulase enzymes. *Green Chemistry*, 18(23), 6329-6336.
- W. H. Choi et al. (2016). Development, validation, and application of ELISA for detection of anti-HD105 antibodies in pre-clinical safety evaluation using monkeys. *Journal of Pharmaceutical and Biomedical Analysis*, 131, 309-315.
- S. H. Lee et al. (2016). Glycomic profiling of targeted serum haptoglobin for gastric cancer using nano LC/MS and LC/MS/MS. *Molecular BioSystems* 12(12), 3611-3621.
- S. Cattepoel et al. (2016). Effect of IVIG Formulation on IgG Binding to Self-and Exo-Antigens In Vitro and In Vivo. *PLoS one*, 11(8), e0161826.
- T. K. Rausch et al. (2016). Comparison of pre-processing methods for multiplex bead-based immunoassays. *BMC genomics*, 17(1), 601.
- M. Fá et al. (2016). Extracellular Tau Oligomers Produce An Immediate Impairment of LTP and Memory. *Nature Scientific reports*, 6.
- A. Lathuiliere et al. (2016). A subcutaneous cellular implant for passive immunization against amyloid-β reduces brain amyloid and tau pathologies. *Brain*, 139(5), 1587-1604.
- M. De Paoli et al. (2016). Multiplatform biomarker discovery for bladder cancer recurrence diagnosis. *Disease markers*, 2016.



- P. Budde et al. (2016). Multiparametric detection of autoantibodies in systemic lupus erythematosus. *Lupus*, 25(8), 812-822.
- C. H. Vu et al. (2016). Adaptive immune response to lipoproteins of *Staphylococcus aureus* in healthy subjects. *Proteomics*, 16(20), 2667-2677.
- O. I. Berthuy et al. (2016). Cancer-Cells on Chip for Label-Free Detection of Secreted Molecules. *Biosensors*, 6(1), 2.
- C. Peri et al. (2016). Evolving serodiagnostics by rationally designed peptide arrays: the *Burkholderia* paradigm in Cystic Fibrosis. *Scientific reports*, 6, 32873.
- Z. R. Baird et al. (2016). Tumor Cell Detection by Mass Spectrometry using Signal Ion Emission Reactive Release Amplification (SIERRA). *Analytical chemistry*, 88(14), 6971-6975.
- D. Pejowski et al. (2016). Identification of Vaccine-Altered Circulating B Cell Phenotypes Using Mass Cytometry and a Two-Step Clustering Analysis. *The Journal of Immunology*, 196(11), 4814-4831.
- V. van Unen et al. (2016). Mass Cytometry of the Human Mucosal Immune System Identifies Tissue-and Disease-Associated Immune Subsets. *Immunity*, 44(5), 1227-1239.
- J. Striffler et al. (2016). Replication of Polymer Based Peptide Microarrays by Multi Step Transfer. *ChemNanoMat*, 2(9), 897-903
- L. Li et al. (2016). Neuronal deficiency of HIF prolyl 4-hydroxylase 2 in mice improves ischemic stroke recovery in an HIF dependent manner. *Neurobiology of Disease* 91, 221-235.
- A. Hoffmann et al. (2016). High-Field MRI Reveals a Drastic Increase of Hypoxia-Induced Microhemorrhages upon Tissue Reoxygenation in the Mouse Brain with Strong Predominance in the Olfactory Bulb. *PloS one*, 11(2), e0148441.
- J. Lin-Holderer et al. (2016). Fumaric acid esters promote neuronal survival upon ischemic stress through activation of the Nrf2 but not HIF-1 signaling pathway. *Neuropharmacology*.105, 228-240.
- D. Gruneberg et al. (2016). Neuronal prolyl-4-hydroxylase 2 deficiency improves cognitive abilities in a murine model of cerebral hypoperfusion. *Experimental neurology*, 286, 93-106.
- K. Kühbach et al. (2016). Application of an amyloid beta oligomer standard in the sFIDA assay. *Frontiers in Neuroscience*, 10, 8.
- M. Lisson and G. Erhardt (2016). Mapping of Epitopes Occurring in Bovine  $\alpha$  s1-Casein Variants by Peptide Microarray Immunoassay. *Methods in molecular biology* (Clifton, NJ), 1352, 279-296.
- M. Brazzoli et al. (2016). Induction of broad-based immunity and protective efficacy by self-amplifying mRNA vaccines encoding influenza virus hemagglutinin. *Journal of virology*, 90.1: 332-344.
- J. Kibat et al. (2016). Utilisation of antibody microarrays for the selection of specific and informative antibodies from recombinant library binders of unknown quality. *New biotechnology* 33(5), 574-581.
- S. A. Boccoz et al. (2016). Development and Validation of a Fully Automated Platform for Extended Blood Group Genotyping. *The Journal of Molecular Diagnostics*, 18(1), 144-152.
- M. Tognon et al. (2016). Specific Antibodies Reacting with SV40 Large T Antigen Mimotopes in Serum Samples of Healthy Subjects. *PloS one*, 11(1), e0145720.
- S. Hofmann et al. (2015). Double-Stranded Ligation Assay for the Rapid Multiplex Quantification of MicroRNAs. *Analytical chemistry*, 87(24), 12104-12111.
- G. K. Behbehani et al. (2015). Mass cytometric functional profiling of acute myeloid leukemia defines cell-cycle and immunophenotypic properties that correlate with known responses to therapy. *Cancer discovery*, 5(9), 988-1003.
- B. Gaudillière et al. (2015). Implementing mass cytometry at the bedside to study the immunological basis of human di-

- seases: distinctive immune features in patients with a history of term or preterm birth. *Cytometry Part A*, 87(9), 817-829.
- H. E. Mei et al. (2015). Platinum-conjugated antibodies for application in mass cytometry. *Cytometry Part A*, 89(3), 292-300.
- R. F. Staack et al. (2015). Quantification of a bifunctional drug in the presence of an immune response: a ligand-binding assay specific for 'active' drug. *Bioanalysis*, 7(24), 3097-3106.
- M. G. Alonso et al. (2015). Relationships between T cell and IgE/IgG4 epitopes of the *Anisakis simplex* major allergen Ani s 1. *Clinical & Experimental Allergy*, 45(5), 994-1005.
- K. Stubenrauch et al. (2015). Epitope characterization of the ADA response directed against a targeted immunocytokine. *Journal of Pharmaceutical and Biomedical Analysis*, 114, 296-304.
- S. Gogalic et al. (2015). Plasmonically amplified fluorescence bioassay with microarray format. In *SPIE Optics+ Optoelectronics* (pp. 95060N-95060N). International Society for Optics and Photonics.
- S. A. Bocoz et al. (2015). Microarrays in Blood Group Genotyping. In *Molecular Typing of Blood Cell Antigens* (pp. 105-113). Humana Press, New York, NY.
- M. Tognon et al. (2015). Immunologic evidence of a strong association between non-Hodgkin lymphoma and simian virus 40. *Cancer*, 121(15), 2618-2626.
- O. I. Berthuy et al. (2015). Cancer-cells on a chip for label-free optic detection of secreted molecules. In *SPIE Optics+ Optoelectronics* (pp. 950615-950615). International Society for Optics and Photonics.
- A. Bonificio et al. (2015). Fabrication of cell culture-derived influenza vaccine dissolvable microstructures and evaluation of immunogenicity in guinea pigs. *Vaccine*, 33(25), 2930-2938.
- L. Hansmann et al. (2015). Mass cytometry analysis shows that a novel memory phenotype B cell is expanded in multiple myeloma. *Cancer immunology research*, 3(6), 650-660.
- T. Wimmer et al. (2015). Functional Characterization of AAV-Expressed Recombinant Anti-VEGF Single-Chain Variable Fragments In Vitro. *Journal of Ocular Pharmacology and Therapeutics*, 31(5), 269-276.
- J. Li et al. (2015). Macrophage Inhibitory Cytokine 1 Biomarker Serum Immunoassay in Combination with PSA Is a More Specific Diagnostic Tool for Detection of Prostate Cancer. *PloS one*, 10(4).
- E. Mazzoni et al. (2015). Significant association between human osteosarcoma and simian virus 40. *Cancer* 121.5: 708-715.
- Z. Kobalava et al. (2015). Pharmacokinetics of serelaxin in patients with hepatic impairment: A single-dose, open-label, parallel-group study. *British journal of clinical pharmacology* 79.6:937-945.
- M. F. M. Fathil et al. (2015). Diagnostics on acute myocardial infarction: Cardiac troponin Biomarkers. *Biosensors and Bioelectronics*, 70, 209-220.
- R. Faggioli et al. (2015). Serum antibodies from epileptic patients react, at high prevalence, with simian virus 40 mimotopes. *European Journal of Neurology* 22.5:789-e52.
- N. Komar et al. (2015). Methods for Detection of West Nile Virus Antibodies in Mosquito Blood Meals. *Journal of the American Mosquito Control Association*, 31(1), 1-6.
- C. Strube et al. (2015). Vaccination with recombinant paramyosin against the bovine lungworm *Dictyocaulus viviparus* considerably reduces worm burden and larvae shedding. *Parasites & vectors*, 8(1), 1-12.
- R. Kunze et al. (2015). Dimethyl fumarate attenuates cerebral edema formation by protecting the blood-brain barrier integrity. *Experimental neurology*, 266, 99-111.
- S. Gogalic et al. (2015). Bladder cancer biomarker array to detect aberrant levels of proteins in urine. *Analyst*, 140(3),

724-735.

H. E. Mei et al. (2015). Barcoding of Live Human Peripheral Blood Mononuclear Cells for Multiplexed Mass Cytometry. *The Journal of Immunology*, 194(4), 2022-2031.

M. J. Dorresteijn et al. (2015). Cell-type-specific downregulation of heme oxygenase-1 by lipopolysaccharide via Bach1 in primary human mononuclear cells. *Free Radical Biology and Medicine*, 78, 224-232.

Y. Zhang, (2015). A stacking flow immunoassay for the detection of dengue-specific immunoglobulins in salivary fluid. *Lab on a Chip* 15, 1465-1471.

B. Brackeva et al. (2015). Potential of UCHL1 as biomarker for destruction of pancreatic beta cells. *Journal of Proteomics* 117, 156-167.

P. Pierog et al. (2015). Detection of drug specific circulating immune complexes from in vivo cynomolgus monkey serum Samples. *Journal of immunological methods* 416, 124-126.

I. Lehmpful et al. Detection of 3, 5-diiodothyronine in sera of patients with altered thyroid status using a new monoclonal antibody-based chemiluminescence immunoassay. *Thyroid*, 24(9), 1350-1360.

C. Borgna-Pignatti et al. (2014). Antibodies reacting with Simian Virus 40 mimotopes in serum samples from patients with thalassaemia major. *Blood Transfusion*, 12(4), 464.

E. W. Newell, and L. L. Yun (2014). Mass Cytometry Analysis of Human T Cell Phenotype and Function. In *T-Helper Cells* (pp. 55-68). Springer New York.

G. K. Behbehani et al. (2014). Transient partial permeabilization with saponin enables cellular barcoding prior to surface marker staining. *Cytometry Part A*, 85(12), 1011-1019.

E. Mazzone et al. (2014). Serologic investigation on undifferentiated nasopharyngeal carcinoma and Simian Virus 40 infection. *Head & neck* 38(2), 232-236.

M. Comar et al. (2014). Neutralizing and IgG Antibodies against Simian Virus 40 in Healthy Pregnant Women in Italy. *PloS one*, 9(10), e110700.

E. Mazzone et al. (2014). Significant Low Prevalence of Antibodies Reacting with Simian Virus 40 Mimotopes in Serum Samples from Patients Affected by Inflammatory Neurologic Diseases, Including Multiple Sclerosis. *PloS one*, 9(11), e110923.

M. Rieger et al. (2014). A new ELISA for the quantification of equine procalcitonin in plasma as potential inflammation biomarker in horses. *Analytical and bioanalytical chemistry*, 1-6.

M. Debald et al. (2014). Calponin-h2: a potential serum marker for the early detection of human breast cancer? *Tumor Biology*, 1-7.

S. Haag et al. (2014). Identification of New Citrulline-Specific Autoantibodies, which bind to Human Arthritic Cartilage, by Mass Spectrometric Analysis of Citrullinated Type II Collagen. *Arthritis & Rheumatology*, 66(6), 1440-1449.

E. Mazzone et al. (2014). Significant prevalence of antibodies reacting with simian virus 40 mimotopes in sera from patients affected by glioblastoma multiforme. *Neuro-oncology*, 16(4), 513-519.

M. C. Ozelo et al. (2014). Omental implantation of endothelial progenitor cells in hemophilia dogs results in long-term circulating FVIII antigen and a complex immune response. *Blood*, blood-2013.

T. Annussek et al. (2014). In vitro inhibition of HUVECs by low dose methotrexate-insights into oral adverse events. *Head & Face Medicine*, 10(1), 19.

D. R. Mhatre et al. (2014). Development of an ELISA for sPSP94 and utility of the sPSP94/sPSA ratio as a diagnostic indicator to differentiate between benign prostatic hyperplasia and prostate cancer. *Clinica Chimica Acta* 436, 256-262.

- R. Gottheil et al. (2014). Moving the solid phase: a platform technology for cartridge based sandwich immunoassays. *Biomedical microdevices*, 16(1), 163-172.
- A. Lathuilière et al. (2014). Genetic engineering of cell lines using lentiviral vectors to achieve antibody secretion following encapsulated implantation. *Biomaterials*, 35(2), 792-802.
- D. Rascher et al. (2014). Total internal reflection (TIRF)-based quantification of procalcitonin for sepsis diagnosis—A point-of-care testing application. *Biosensors and Bioelectronics* 59; 251-258.
- P. Otto et al. (2014). Serological Investigation of Wild Boars (*Sus scrofa*) and Red Foxes (*Vulpes vulpes*) As Indicator Animals for Circulation of *Francisella tularensis* in Germany. *Vector-Borne and Zoonotic Diseases*, 14(1), 46-51.
- C. Happold et al. (2014). Interferon- $\beta$  induces loss of spherogenicity and overcomes therapy resistance of glioblastoma stem cells. *Molecular cancer therapeutics*, molcanther-0772.
- S. S. Moriya et al. (2014). Construction of an Immunochromatographic Determination System for N1, N12-diacetylspermine. *Journal of clinical laboratory analysis*, 28(6), 452-460.
- C. Giesen et al. (2014). Highly multiplexed imaging of tumor tissues with subcellular resolution by mass cytometry. *Nature methods* 11, 417–422
- M. Angelo et al. (2014). Multiplexed ion beam imaging of human breast tumors. *Nature medicine*, 20(4), 436-442.
- M. F. García-Mayoral et al. (2014). Relationships between IgE/IgG4 Epitopes, Structure and Function in *Anisakis simplex* Ani s 5, a Member of the SXP/RAL-2 Protein Family. *PLoS neglected tropical diseases*, 8(3), e2735.
- M. Lisson et al. (2014). Immunoglobulin E epitope mapping by microarray immunoassay reveals differences in immune response to genetic variants of caseins from different ruminant species. *Journal of Dairy Science* 97(4), 1939–1954.
- S. Reischl et al. (2014). Inhibition of HIF prolyl-4-hydroxylases by FG-4497 Reduces Brain Tissue Injury and Edema Formation during Ischemic Stroke. *PLoS one*, 9(1), e84767.
- S. Esnault et al. (2014). Semaphorin 7A is expressed on airway eosinophils and upregulated by IL-5 family cytokines. *Clinical Immunology*, 150(1), 90-100.
- M. Kemmler et al. (2014). Biochip point-of-care device for sepsis diagnostics. *Sensors and Actuators B: Chemical*, 192, 205-215.
- S. Oster et al. (2014). Rotigotine protects against glutamate toxicity in primary dopaminergic cell culture. *European Journal of Pharmacology*, 724, 31-42.
- J. Christopher-Hennings et al. (2013). Opportunities for bead-based multiplex assays in veterinary diagnostic laboratories. *J Vet Diagn Invest*. 25(6):671-91.
- C. McAndrew et al. (2013). Development of Applications of Acoustic Membrane MicroParticle Assay Technology for Translational Medicine. AACR 104th Annual Meeting 2013; Apr 6-10, 2013; Washington, DC
- M. C. Holland et al. (2013). Autoantibodies to variable heavy (V H) chain Ig sequences in humans impact the safety and clinical pharmacology of a V H domain antibody antagonist of TNF- $\alpha$  receptor 1. *Journal of clinical immunology*, 33(7), 1192-1203.
- N. Schreiber et al. (2013). Lung Alterations Following Single or Multiple Low-Dose Carbon Black Nanoparticle Aspirations in Mice. *Journal of Toxicology and Environmental Health, Part A*, 76(24), 1317-1332.
- A. Hekele et al. (2013). Rapidly produced SAM<sup>®</sup> vaccine against H7N9 influenza is immunogenic in mice. *Emerging Microbes & Infections*, 2(8), e52.
- E. Gulbins et al. (2013). Acid sphingomyelinase-ceramide system mediates effects of antidepressant drugs. *Nature Medicine* 19, 934–938

- U. Hampel et al. (2013). Chemokine and cytokine levels in osteoarthritis and rheumatoid arthritis synovial fluid. *J Immunol Methods*, 396(1-2), 134-39.
- S. Ferrari et al. (2013). Low Incidence of Anti-CD36 Antibodies in Acquired Thrombotic Thrombocytopenic Purpura. *J Blood Disorders Transf* 4:146.
- H. Planatscher et al. (2013). Systematic reference sample generation for multiplexed serological assays. *Scientific Reports*, 3, 3259.
- C. Desmet et al. (2013). Multiplex microarray ELISA versus classical ELISA, a comparison study of pollutant sensing for environmental analysis. *Environ. Sci.: Processes Impacts*, 15, 1876-82
- B. Ayoglu et al. (2013). Autoantibody profiling in multiple sclerosis using arrays of human protein fragments. *Mol Cell Proteomics*. 12(9):2657-72.
- S. Cattepoel et al. (2013). Intravenous Immunglobulin Binds Beta Amyloid and Modifies Its Aggregation, Neurotoxicity and Microglial Phagocytosis in Vitro. *PLoS ONE* 8(5): e63162.
- T. K. Sigdel and M. M. Sarwal (2013), Discovery and Customized Validation of Antibody Targets by Protein Arrays and Indirect ELISA. *Transplantation Immunology*. Humana Press, 373-384.
- A. Taronna et al. (2013). Serological Evidence of an Early Seroconversion to Simian Virus 40 in Healthy Children and Adolescents. *PLoS ONE* 8(4):e61182.
- S. Tang et al. (2013). UV-mediated downregulation of the endocytic collagen receptor, Endo180, contributes to accumulation of extracellular collagen fragments in photoaged skin. *Journal of dermatological science*, 70(1), 42-48.
- Y. Skaik et al. (2013). Development of a single-antigen magnetic bead assay (SAMBA) for the sensitive detection of HPA-1a alloantibodies using tag-engineered recombinant soluble  $\beta$ 3 integrin. *J Immunol Methods*, 391(1-2), 72-80.
- M. R. Kaufmann et al. (2013). Onconeuronal antigen Cdr2 correlates with HIF prolyl-4-hydroxylase PHD1 and worse prognosis in renal cell carcinoma. *Experimental and Molecular Pathology*, 94(3), 453-457.
- N. Sommer et al. (2013). A tissue-engineered human dermal construct utilizing fibroblasts and transforming growth factor  $\beta$ 1 to promote elastogenesis. *Biotechnology Journal*, 8(3), 317-326.
- S. Abdellaoui et al. (2013). Biomolecules Immobilization Using the Aryl Diazonium Electrografting. *Electroanalysis*, 25(3), 671-684.
- M. K. Gavala et al. (2013). Segmental allergen challenge enhances chitinase activity and levels of CCL18 in mild atopic asthma. *Clinical & Experimental Allergy*, 43(2), 187-197.
- K. Kaendler et al. (2013). Evaluation of dried blood spots for the quantification of therapeutic monoclonal antibodies and detection of anti-drug antibodies. *Bioanalysis*, 5(5), 613-22.
- C. M. Winterflood et al. (2013). Fast and Sensitive Interferon- $\gamma$  Assay Using Supercritical Angle Fluorescence. *Biosensors*, 3(1), 108-115.
- C. A. Mandon et al. (2013). Polymer adhesive surface as flexible generic platform for multiplexed assays biochip production. *Biosensors and Bioelectronics*, 39(1), 37-43.
- C. Desmet et al. (2012). High-throughput multiplexed competitive immunoassay for pollutants sensing in water. *Anal Chem* 84(23):10267-76.
- H. Venderstichele et al. (2012). Potential sources of interference on Abeta immunoassays in biological samples. *Alzheimer's Research & Therapy*, 4:39.
- B. Bodenmiller et al. (2012). Multiplexed mass cytometry profiling of cellular states perturbed by small-molecule regulators. *Nat Biotechnol*. 30(9):858-67.

- E. Mazzone et al. (2012). High prevalence of serum antibodies reacting with simian virus 40 capsid protein mimotopes in patients affected by malignant pleural mesothelioma. *PNAS* 109(44): 18066-71.
- M. Schmohl et al. (2012). Superficial wound swabbing: a novel method of sampling and processing wound fluid for subsequent immunoassay analysis in diabetic foot ulcerations. *Diabetes Care* 35(11):2113-20.
- M. Schmohl et al. (2012). Characterization of immunologically active drugs in a novel organotypic co-culture model of the human gut and whole blood. *Int Immunopharmacol* 14(4): 722-8.J.
- J. Neunzehn et al. (2012). Investigation of biomaterials by human epithelial gingiva cells: an in vitro study, *Head & Face Medicine*, 8(1), 1-11.
- K. Stubenrauch et al. (2012). Characterization of murine anti-human Fab antibodies for use in an immunoassay for generic quantification of human Fab fragments in non-human serum samples including cynomolgus monkey samples. *J Pharm Biomed Anal* 72:208-15.
- T. Annussek et al. (2012). Short time administration of antirheumatic drugs - Methotrexate as a strong inhibitor of osteoblasts proliferation in vitro. *Head Face Med* 8(1):26.
- M. Schmohl et al. (2012). Superficial Wound Swabbing: A novel method of sampling and processing wound fluid for subsequent immunoassay analysis in diabetic foot ulcerations. *Diabetes Care* 35:2113-20.
- J. Tuncel et al. (2012). Class II major histocompatibility complex-associated response to type XI collagen regulates the development of chronic arthritis in rats. *Arthritis Rheum* 64(8):2537-47.
- G. Boysen et al. (2012). Identification and Functional Characterization of pVHL-Dependent Cell Surface Proteins in Renal Cell Carcinoma. *Neoplasia* 14(6): 535–546.
- K. Miessen et al. (2012). Establishment and characterization of a differentiated epithelial cell culture model derived from the porcine cervix uteri. *BMC Veterinary Research* 8:31.
- M. Ziegler et al. (2012). The bispecific SDF1-GPVI fusion protein preserves myocardial function after transient ischemia in mice. *Circulation* 125(5):685-96.
- T. Rülker et al. (2012). Isolation and Characterisation of a Human-Like Antibody Fragment (scFv) that Inactivates VEEV In Vitro and In Vivo. *PLoS ONE* 7(5): e37242.
- K. G. Behbehani et al. (2012). Single-cell mass cytometry adapted to measurements of the cell cycle. *Cytometry Part A* 81(7):552–66.
- M. Kehrel et al. (2012). A novel approach for increasing sensitivity in lateral flow assays: Development of an enrichment module based on polyethylene sintered bodies. *Physica status solidi* 209(5):917–24.
- S.-Y. Park et al. (2012). Globoside promotes activation of ERK by interaction with the epidermal growth factor receptor. *Biochimica et Biophysica Acta (BBA) - General Subjects Volume* 1820(7):1141–48.
- G. C. Le Goff et al. C. A. Marquette (2012). Impact of immobilization support on colorimetric microarrays performances. *Bioelectronics* 35(1): 94-100.
- A. Corallini et al. (2012). Specific antibodies reacting with simian virus 40 capsid protein mimotopes in serum samples from healthy blood donors. *Hum Immunol* 73(5):502-10.
- T.-F. Tzeng et al. (2012). Vinegar-Baked Radix Bupleuri Regulates Lipid Disorders via a Pathway Dependent on Peroxisome-Proliferator-Activated Receptor- $\alpha$  in High-Fat-Diet-Induced Obese Rats. *Evid Based Complement Alternat Med*. 2012:827278.
- J. O. Baek et al. (2012). Production of human papillomavirus type 33 L1 major capsid protein and virus-like particles from *Bacillus subtilis* to develop a prophylactic vaccine against cervical cancer. *EMT* 50(3):173-180.
- C. J. Chang et al. (2012). Regulation of lipid disorders by ethanol extracts from *Zingiber zerumbet* in high-fat diet-induced

rats. *Food Chemistry* 132(1): 460-467.

J.-L. Sagripanti et al. (2011). Microbial Inactivation for Safe and Rapid Diagnostics of Infectious Samples. *Appl. Environ. Microbiol.* 77:7289-7295.

C. J. Chang et al. (2011). Kaempferol regulates the lipid-profile in high-fat diet-fed rats through an increase in hepatic PPAR $\alpha$  levels. *Planta Med* 77:1876-1882.

J.-L. Sagripanti et al. (2011). Photochemical Inactivation of Alpha- and Poxviruses. *Photochemistry and Photobiology*, 87:1369–1378.

T. Ruckstuhl et al. (2011). Supercritical Angle Fluorescence Immunoassay Platform. *Anal Chem* 83(6):2345-50.

F. Ronzoni et al. (2011). Localization of Magic-F1 Transgene, Involved in Muscular Hypertrophy, during Early Myogenesis. *J Biomed Biotechnol* 2011:492075.

A. C. Kotto-Kome et al. (2011). Circulating Anti-PLAC1 antibodies during pregnancy and in women with reproductive failure: a preliminary analysis. *International Scholarly Research Notices*, 2011.

S. Y. Park et al. (2011).  $\alpha$ 1-3/4 fucosylation at Asn 241 of  $\beta$ -haptoglobin is a novel marker for colon cancer: A combinatorial approach for development of glycan biomarkers. *Int J Cancer* 130(10):2366-76.

O. Köhler et al. (2011). Lithographically structured biological recognition structures for immunosensing and single cell analytics. *Physica status solidi (a)*, 208:1275–78.

C. Desmet et al. (2011). Multiplexed immunoassay for the rapid detection of anti-tumor-associated antigens antibodies. *Analyst* 136, 2918-24.

I. Khan et al. (2011). Comparative evaluation of three commercially available complement fixation test antigens for the diagnosis of glanders. *Vet Rec* 169(19):495.

B. P. Corgier et al. (2011). Adhesive microarrays for multipurpose diagnostic tools. *Lab Chip*. 11(17):3006-10.

S. C. Bendall et al. (2011). Single-Cell Mass Cytometry of Differential Immune and Drug Responses Across a Human Hematopoietic Continuum. *Science* 332 (6030):687-96.

S. Wang et al. (2011). Synapsin I Is an Oligomannose-Carrying Glycoprotein, Acts As an Oligomannose-Binding Lectin, and Promotes Neurite Outgrowth and Neuronal Survival When Released via Glia-Derived Exosomes. *J Neurosci* 31(20):7275-90.

S. Sinn et al. (2011). NCO-sP(EO-stat-PO) Coatings on Gold Sensors - a QCM Study of Hemocompatibility. *Sensors* 11, 5253-69.

I. Cima et al. (2011). Cancer genetics-guided discovery of serum biomarker signatures for diagnosis and prognosis of prostate cancer. *PNAS* 108 (8): 3342-47.

M. C. Elschner et al. (2011). Use of a western blot technique for the serodiagnosis of glanders. *BMC Veterinary Research* 2011, 7:4.

T. Kuczius et al. (2011). A duplex approach for immunochemical staining and typing of proteins in western blots. *Analytical Biochemistry* 409(2):260-66.

P. Favaro et al. (2011). Safety of liver gene transfer following peripheral intravascular delivery of AAV-5 and AAV-6 in a large animal model. *Human Gene Therapy* 22:1-10.

S. Sinn et al. (2010). Platelet aggregation monitoring with a newly developed quartz crystal microbalance system as an alternative to optical platelet aggregometry. *Analyst* 135:2930-38.

P. M. Krämer et al. (2010). Multi-Parameter Determination of TNF $\alpha$ , PCT and CRP for Point-of-Care Testing. *Analyst* 136, 692-95.

- T. Kuczius et al. (2010). Immunological one-step determination of the central nervous system indicator proteins, neuron-specific enolase and glial fibrillary acidic protein, in meat products. *Mol Nut Food Res* 54(11):1690-95.
- V. Spitzenberg et al. (2010). Targeting PI3K in neuroblastoma. *J Cancer Res Clin Oncol* 136:1881-90.
- S. Kunnath-Velayudhana et al. (2010). Dynamic antibody responses to the Mycobacterium tuberculosis proteome. *PNAS* 107(33):14703-08.
- V. Haurigot et al. (2010). Safety of AAV Factor IX Peripheral Transvenular Gene Delivery to Muscle in Hemophilia B Dogs. *Mol Ther* 18(7): 1318–29.
- P. M. Krämer et al. (2010). Analysis of DDT isomers with enzyme-linked immunosorbent assay and optical immunosensor based on rat monoclonal antibodies as biological recognition elements. *J AOAC Int* 93(1):44-58.
- C. Schröder et al. (2010). Dual-color proteomic profiling of complex samples with a microarray of 810 cancer-related antibodies. *Mol Cell Proteomics* 9(6): 1271–80.
- C. Schröder et al. (2010). Antibody microarrays for expression analysis. *Antibody Engineering Vol. 2*, R. Kontermann and S. Dübel ed. Springer Verlag Berlin Heidelberg, Chapter 33, 429-44.
- J. Teschner et al. (2010). A Novel Role for Arabidopsis Mitochondrial ABC Transporter ATM3 in Molybdenum Cofactor Biosynthesis. *Plant Cell* 22(2):468-80.
- K. Stubenrauch et al. (2010). Evaluation of a generic immunoassay with drug tolerance to detect immune complexes in serum samples from cynomolgus monkeys after administration of human antibodies. *Biomed Anal* 52(2):249-54.
- K. Stubenrauch et al. (2010). Impact of molecular processing in the hinge region of therapeutic IgG4 antibodies on disposition profiles in cynomolgus monkeys. *Drug Metab Dispos* 38(1):84-91.
- A. J. Basile et al. (2010). Removal of species constraints in antibody detection. *Clin Vaccine Immunol* 17(1):56-61.
- F. Grueninger et al. (2009). Phosphorylation of Tau at S422 is enhanced by A $\beta$  in TauPS2APP triple transgenic mice. *Neurobiol Dis* 37(2):294-306.
- J. Schön et al. (2009). Localization of Oestrogen Receptors in the Epididymis During Sexual Maturation of the Domestic Cat. *Reproduction in Domestic Animals* 44:294–301.
- D. E. Sabatino et al. (2009). Recombinant canine B-domain–deleted FVIII exhibits high specific activity and is safe in the canine hemophilia A model. *Blood* 114(20):4562-65.
- F. Baldini et al. (2009). Point of care optical device for sepsis diagnosis. *Proc SPIE* (7503):75037.
- F. Baldini et al. (2009). A sandwich assay for procalcitonin detection in POCT applications. *Proc. SPIE* (7169):716905.
- F. Baldini et al. (2009). A fluorescent immunoassay for the determination of procalcitonin and C-reactive protein. *Proc SPIE* (7356):735613.
- T. Polifke and P. Rauch (2009). Affinity discrimination to avoid interference in assays, *IVD Technology* 15(2):33-39.
- Fischer et al. (2009). Inhibition of RET and JAK2 signals and upregulation of VEGFR3 phosphorylation in vitro by galectin-1 in trophoblast tumor cells BeWo. *Placenta*, 30(12):1078-82.
- K. Nöckler et al. (2009). Evaluation of a western Blot and ELISA for the detection of anti-Trichinella-IgG in pig sera. *Veterinary Parasitology* 163(4):341-47.
- F. Baldini et al. (2009). An optical PMMA biochip based on fluorescence anisotropy: Application to C-reactive protein assay. *Sensors and Actuators B: Chemical* 139(1):64-68.
- P. Domnanich et al. (2009). Protein microarray for the analysis of human melanoma biomarkers, *Sensors and Actuators B: Chemical* 139(1):2-8.



- C. A. Marquette et al. (2009). Chemiluminescent enzyme immunoassays: a review of bioanalytical applications. *Bioanalysis*, 1(7), 1259-1269.
- C. A. Marquette et al. (2009). Disposable screen-printed chemiluminescent biochips for the simultaneous determination of four point-of-care relevant proteins. *Anal Bioanal Chem* 393(4):1191-98.
- P. Racay et al. (2009). Ischemia-induced mitochondrial apoptosis is significantly attenuated by ischemic preconditioning. *Cell Mol Neurobiol* 29(6-7):901-08.
- F. Baldini et al. (2008). A new procalcitonin optical immunosensor for POCT applications. *Anal Bioanal Chem* 393(4):1183-90.
- P. Krämer et al. (2008). Development and characterization of new rat monoclonal antibodies for procalcitonin. *Anal Bioanal Chem* 392(4):727-36.
- C. Lehmann et al. (2008). A line immunoassay utilizing recombinant nucleocapsid proteins for detection of antibodies to human coronaviruses. *Diagnostic microbiology and infectious disease* 61(1):40-48.
- S. Scobioala et al. (2008). Up-regulation of nestin in the infarcted myocardium potentially indicates differentiation of resident cardiac stem cells into various lineages including cardiomyocytes. *FASEB J.* 22 (4):1021-31.
- J. Schön and S. Blottner (2008). Estrogens are involved in seasonal regulation of spermatogenesis and sperm maturation in roe deer. *Gen Comp Endocrinol* 159(2-3):257-63.
- P. M. Krämer et al. (2008). Enzyme-linked immunosorbent assays for the sensitive analysis of 2,4-dinitroaniline and 2,6-dinitroaniline in water and soil. *Anal Bioanal Chem* 391(5):1821-35.
- T. Polifke and P. Rauch (2008). Assay: Avoiding Interference in Immunoassays, *Genetic Engineering & Biotechnology News* 28(13):43-45.
- A. Fischer et al. (2007). A quantitative real-time immuno-PCR approach for detection of staphylococcal enterotoxins. *J Mol Med* 85:461-69.
- J. Barraclough et al. (2007). Increases in c-Yes expression level and activity promote motility but not proliferation of human colorectal carcinoma cells. *Neoplasia* (9):745-54.
- H. Muckenfuss et al. (2006). APOBEC3 proteins inhibit human LINE-1 retrotransposition. *J Biol Chem.* 281(31):22161-72.