

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

G. Sapkal, A. Shete-Aich, R. Jain, P. D. Yadav, P. Sarkale, R. Lakra, S. Baradkar, G. R. Deshpande, D. Mali, B. N. Tilekar, T. Majumdar, H. Kaushal, Y. Gurav, N. Gupta, S. Mohandas, K. Deshpande, O. Kaduskar, M. Salve, S. Patil, S. Gaikwad, A. P. Sugunan, M. Ashok, S. Giri, J. Shastri, P. Abraham, R. R. Gangakhedkar, and COVID Support Team (2020). (2020). Development of indigenous IgG ELISA for the detection of anti-SARS-CoV-2 IgG. https://doi.org/10.4103/ijmr.IJMR_2232_20

D. Simon, K. Tascilar, G. Krönk, A. Kleyer, M. Zaiss, F. Heppt, C. Meder, R. Atreya, E. Klenske, P. Dietrich, A. Abdullah, T. Kliem, G. Corte, H. Morf, M. Leppkes, A. Kremer, A. Ramming, M. Pachowsky, F. Schuch, M. Ronneberger, S. Kleinert, C. Maier, A. Hueber, K. Manger, B. Manger, C. Berking, M. Tenbusch, K. Überla, M. Sticherling, M. F. Neurath, and G. Schett. (2020). Patients with immune-mediated inflammatory diseases receiving cytokine inhibitors have low prevalence of SARS-CoV-2 infection. <https://doi.org/10.21203/rs.3.rs-34550/v1>

L. Rodriguez, P. Pekkarinen, L. K. Tadepally, Z. Tan, C. R. Consiglio, C. Pou, Y. Chen, C. H. Mugabo, A. N. Quoc, K. Nowlan, T. Strandin, L. Levanov, J. Mikes, J. Wang, A. Kantele, J. Hepojoki, O. Vapalahti, S. Heinonen, E. Kekäläinen, and P. Brodin (2020). Systems-level immunomonitoring from acute to recovery phase of severe COVID-19. medRxiv. <https://doi.org/10.1101/2020.06.03.20121582doi>

A. V. Pisapati, Y. Wang, M. E. Blauch, N. J. Wittenberg, X. Cheng, and X. F. Zhang (2020). Characterizing Single-Molecule Conformational Changes Under Shear Flow with Fluorescence Microscopy. *Journal of visualized experiments: JoVE*, (155).

M. Daher, R. Basar, E. Gokdemir, N. Baran, N. Uprety, A. K. Nunez Cortes, M. Mendt, L. N. Kerbauy, P. P. Banerjee, M. H. Sanabria, N. Imahashi, L. Li, F. Lorraine, W. I. Lim, M. Fathi, A. Rezvan, V. Mohanty, Y. Shen, H. Shaim, J. Lu, G. Ozcan, E. Ensley, M. Kaplan, V. Nandivada, M. Bdaiwi, S. Acharya, Y. Xi, X. Wan, D. Mak, E. Liu, S. Ang, L. Muniz-Feliciano, Y. Li, J. Wang, S. Kordasti, N. Petrov, N. Varadarajan, D. Marin, L. Brunetti, R. J. Skinner, S. Lyu, L. Silva, R. Turk, M. S. Schubert, G. R. Rettig, M. S. McNeill, G. Kurgan, M. A. Behlke, H. Li, N. W. Fowlkes, K. Chen, M. Konopleva, R. Champlin, E. J. Shpall, and K. Rezvani (2020). CIS checkpoint deletion enhances the fitness of cord blood derived natural killer cells transduced with a chimeric antigen receptor. bioRxiv. <https://doi.org/10.1101/2020.03.29.014472>

A. S. Roy, S. Miskinyte, A. Garat, A. Hovnanian, M. A. Krzewinski-recchi, and F. Foulquier (2020). SPCA1 governs the stability of TMEM165 in Hailey-Hailey disease. *Biochimie*, 174, 159-170.

H. Kothari, C. M. Williams, C. McSkimming, M. Vigneshwar, E. R. Zunder, and C. A. McNamara (2020). Identification of Human Immune Cell Subtypes Most Vulnerable to IL-1 β -induced Inflammatory Signaling Using Mass Cytometry. bioRxiv. <https://doi.org/10.1101/2020.04.19.047274>

Y. Yu, J. Dang, X. Liu, L. Wang, S. Li, T. Zhang, and X. Ding, X. (2020). Metal-Labeled Aptamers as Novel Nanoprobes for Imaging Mass Cytometry Analysis. *Analytical Chemistry*, 92(9), 6312-6320.

M. J. Wirth, T. Ackels, A. Kriebel, K. Kriebel, J. Mey, T. Kuenzel, and H. Wagner (2020). Expression Patterns Of Chloride Transporters In The Auditory Brainstem Of Developing Chicken. *Hearing Research*, 108013.

S. H. Lee, Y. P. Lu, W. L. Shih, C. D. Chang, Y. C. Tu, and I. H. LAI (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, U. Wessels, M. Zadak, R. Beckmann, K. Stubenrauch, K. (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, H. W. Jackson, V. R. T. Zanutelli, E. Danenberg, J. R. Fischer, H. Bardwell, E. Provenzano, CRUK IMAXT Grand Challenge Team, O. M. Rueda, S.-F. Chin, S. Aparicio, C. Caldas, and B. Bodenmiller (2020). Imaging mass cytometry and multiplatform genomics define the phenogenomic landscape of breast cancer. *Nature Cancer*, 1(2), 163-175.

S. Kumar, X. K. Lun, B. Bodenmiller, M. R. Martínez, and H. Koepl (2020). Stabilized Reconstruction of Signaling networks from Single-cell cue-Response Data. *Scientific Reports*, 10(1), 1-9.

L. S.T. Rodriguez, C. Pou, T. Lakshmikanth, J. Zhang, C. H. Mugabo, J. Wang, J. Mikes, A. Olin, Y. Chen, J. Rorbach, J.-E. Juto, T. Q. Li, P. Julin, and P. Brodin (2020). Achieving symptom relief in patients with Myalgic encephalomyelitis by targeting the neuro-

immune interface and inducing disease tolerance. doi.org/10.1101/2020.02.20.958249
bioRxiv.

A. J. Wisdom, Y. M. Mowery, C. S. Hong, X. Qin, D. Zhang, J. E. Himes, L. Chen, H. Fradin, E. S. Muise, E. S. Xu, D. J. Carpenter, C. L. Kent, K. S. Smythe, N. Williams, L. Luo, Y. Ma, K. Owzar, T. Bradley, and D. G. Kirsch (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.

T. Lakshmikanth, S. A. Muhammad, A. Olin, Y. Chen, J. Mikes, L. Fagerberg, A. Gummesson, G. Bergstrom, M. Uhlen, and P. Brodin (2020). Human immune system variation during one year. doi.org/10.1101/2020.01.22.915025 bioRxiv.

A. Giannetti, C. Trono, G. Porro, C. Domenici, M. Puntoni, and F. Baldini (2020). Towards an Integrated System as Point-of-Care Device for the Optical Detection of Sepsis Biomarkers. *Chemosensors*, 8(1), 12.

E. Mazzoni, I. Bononi, S. Pietrobon, E. Torreggiani, M. Rossini, M. Pugliatti, I. Casetta, M. Castellazzi, E. Granieri, G. Guerra, F. Martini, M. Tognon, and F. Martini (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*. doi.org/10.1002/jcp.29533

N. Aubert, B. L. Salomon, and G. Marodon (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, R. Finck, N. Samusik, K. J. Sridhar, W. J. Fantl, P. L. Greenberg, and G. P. Nolan (2020). Profiling myelodysplastic syndromes by mass cytometry demonstrates abnormal progenitor cell phenotype and differentiation. *Cytometry Part B: Clinical Cytometry*.

J. Schiefer, J. Baron-Stefaniak, T. Boehm, P. Wadowski, G. Berlakovich, L. Kuessel, J. Mühlbacher, P. Jilma-Stohlawetz, M. Schwameis, B. Jilm, and P. Faybik (2020). Regulation of histamine and diamine oxidase in patients undergoing orthotopic liver transplantation. *Scientific Reports*, 10(1), 1-8.

A. Hey, M. Hill, C. Calonder, A. M. DeLise, A. B. Grossi, C. Pique, and E. Marsden (2020). "Simulect" as a model compound for assessing placental transfer of monoclonal antibodies in minipigs. *Reproductive Toxicology*, 91, 142-146.

J. Mikes, A. Olin, T. Lakshmikanth, Y. Chen, and P. Brodin (2019). Automated Cell Processing for Mass Cytometry Experiments. In *Mass Cytometry* (pp. 111-123). Humana, New York, NY.

M. E. Ijsselsteijn, R. van der Breggen, A. Farina Sarasqueta, F. Koning, and N. F. de Miranda (2019). A 40-Marker Panel for High Dimensional Characterization of Cancer Immune Microenvironments by Imaging Mass Cytometry. *Frontiers in immunology*, 10, 2534.

Z. Li, J. Hu, Z. Qin, Y. Tao, Z. Lai, Q. Wang, and T. Li (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, A. Buchmueller, F. Dittmer, J. Straßburger, and A. Wilmen (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, P. D. Yadav, Y. K. Gurav, P. G. Pardeshi, A. M. Shete, R. Jain, D. D. Raval, K. J. Upadhyay, and D. Y. Patil (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, Y. K. Gurav, A. M. Shete, R. Jain, D. A. Nyayanit, P. G. Pardeshi, R. Viswanathan, T. R. Chiplunkar, P. Awate, T. P. Majumdar, R. R. Sahay, and D. T. Mourya (2019). Kinetics of viral RNA, immunoglobulin-M & G antibodies in Kyasanur forest disease. *The Indian journal of medical research*, 150(2), 186.

S. Kalme, S. Kandaswamy, A. Chandrasekharmath, R. Katiyar, G. P. Rajamanickam, S. Kumar, and D. Dendukuri (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, E. Schartmann, C. Zafiu, B. Kass, S. Hartwig, S. Lehr, O. Banach, K.-J. Langen, N. L. Shah, J. Kutzsche, A. Willoweit, and D. Willbold (2019). Aβ Oligomer Elimination Restores Cognition in Transgenic Alzheimer's Mice with Full-blown Pathology.

Molecular neurobiology, 56(3), 2211-2223.

C.-C. S. Pai, J. T. Huang, X. Lu, D. M. Simons, C. Park, A. Chang, W. Tamaki, E. Liu, K. T. Roybal, J. Seagal, M. Chen, K. Hagihara, X. X. Wei, M. DuPage, S. S. Kwek, D. Y. Oh, A. Daud, K. K. Tsai, C. Wu, L. Zhang, M. Fasso, R. Sachidanandam, A. Jayaprakash, I. Lin, A.-J. Casbon, G. A. Kinsbury, and L. Fong (2019). Clonal deletion of tumor-specific T cells by interferon- γ confers therapeutic resistance to combination immune checkpoint blockade. *Immunity*, 50(2), 477-492.

S. Rixen, A. Havemeyer, A. Tyl-Bielicka, K. Pysniak, M. Gajewska, M. Kulecka, J. Ostrowski, M. Mikula and B. Clement (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, G. Ponath, M. Levine-Ritterman, E. Bull, E. Swanson, P. L. De Jager, B. M. Segal, and D. Pitt (2019). The landscape of myeloid and astrocyte phenotypes in acute multiple sclerosis lesions. *Acta neuropathologica communications*, 7(1), 130.

C. Stiller, H. Aghelpasand, T. Frick, K. Westerlund, A. Ahmadian, and A. Eriksson Karlström (2019). Fast and efficient Fc-specific photoaffinity labelling to produce antibody-DNA-conjugates. *Bioconjugate chemistry*, 30(11), 2790-2798.

A. R. Schulz, S. Baumgart, J. Schulze, M. Urbicht, A. Grützkau, and H. E. Mei (2019). Stabilizing Antibody Cocktails for Mass Cytometry. *Cytometry Part A*.

Y. Wang, M. Morabito, X. F. Zhang, E. Webb III, A. Oztekin, and X. Cheng, X. (2019). Shear-Induced Extensional Response Behaviors of Tethered von Willebrand Factor. *Biophysical journal* 116(11), 2092-2102.

E. Le Rhun, C. von Achenbach, B. Lohmann, M. Silginer, H. Schneider, K. Meetze, E. Szabo, and M. Weller (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, K. J. Hiam, C. E. Burnett, A. Venida, R. DeBarge, Y. Carmi, and M. H. Spitzer (2019). The Development, Function, and Plasticity of the Immune Macroevironment in Cancer. *bioRxiv*, 805473.

H. O. Mayr, F. F. Fassbender, W. C. Prall, F. Haasters, A. Bernstein, and A. Stoehr (2019). Immunohistochemical examination in arthrofibrosis of the knee joint. *Archives of orthopaedic and trauma surgery*, 139(3), 383-391.

C. Vonarburg, M. Loetscher, M. O. Spycher, A. Kropf, M. Illi, S. Salmon, S. Roberts, K. Steinfuehrer, I. Campbell, S. Koernig, J. Bain, M. Edler, U. Baumann, S. Miescher, D. W. Metzger, A. Schaub, F. Käsermann, and A. W. Zuercher (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, J. L. Liu, L. C. Shriver-Lake, D. Zabetakis, V. A. Sugiharto, H. W. Chen, C.-R. Lee, G. N. Defang, S.-J. L. Wu, N. Venkateswaran, and E. R. Goldman (2019). Oriented Immobilization of Single-Domain Antibodies Using SpyTag/SpyCatcher Yields Improved Limits of Detection. *Analytical chemistry*, 91(15), 9424-9429.

M. T. Odinolfi, A. Romanato, G. Bergamaschi, A. Strada, L. Sola, A. Girella, C. Milanese, M. Chiari, A. Gori, and Cretich (2019). Clickable cellulosic surfaces for peptide-based bioassays. *Talanta*, 205, 120152.

X.-K. Lun, D. Szklarczyk, A. Ga´bor, N. Dobberstein, V. R. T. Zanotelli, J. Saez-Rodriguez, C. von Mering, and B. Bodenmiller (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, Y. X. Wang, T. Mai, E. Porpiglia, P. J. Lund, G. Markov, B. A. Garcia, S. C. Bendall, M. Angelo, and H. M. Blau (2019). Glucose Metabolism Drives Histone Acetylation Landscape Transitions that Dictate Muscle Stem Cell Function. *Cell reports*, 27(13), 3939-3955.

W. S. Chen, N. Zivanovic, D. van Dijk, G. Wolf, B. Bodenmiller, and S. Krishnaswamy (2019). Embedding single-cell experimental conditions to reveal manifold structure of cancer drug perturbation effects. *bioRxiv*, 455436.

J. Harnofi, M. C. A. Cañizal, M. Jurásek, J. Kumar, C. Holler, A. Schambony, K. Hanáková, O. Bernatík, Z. Zdráhal, K. Gömöryová, T. Gybel, T. W. Radaszkiewicz, M. Kravec, L. Trantírek, J. Rynefi, Z. Dave, A. I. Fernández-Llamazares, R. Vácha, K. Tripsianes, C. Hoffmann, and V. Bryja (2019). Dishevelled-3 conformation dynamics analyzed by FRET-based biosensors reveals a key role of casein kinase 1. *Nature communications*, 10(1), 1804.

- S. P. Jochems, K. de Ruyter, C. Solórzano, A. Voskamp, E. Mitsi, E. Nikolaou, B. F. Carniel, S. Pojar, E. L. German, J. Reiné, A. Soares-Schanoski, H. Hill, R. Robinson, A. D. Hyder-Wright, C. M. Weight, P. F. Durrenberger, R. S. Heyderman, S. B. Gordon, H. H. Smits, B. C. Urban, J. Rylance, A. M. Collins, M. D. Wilkie, L. Lazarova, S. C. Leong, M. Yazdanbakhsh, and D. M. Ferreira (2019). Innate and adaptive nasal mucosal immune responses following experimental human pneumococcal colonization. *The Journal of clinical investigation*, 129(10).
- L Keren, M. Bosse, S. Thompson, T. Risom, K. Vijayaragavan, E. McCaffrey, D. Marquez, R. Angoshtari, N. F. Greenwald, H. Fienberg, J. Wang, N. Kambham, D. Kirkwood, G. Nolan, T. J. Montine, S. J. Galli, R. West, S. C. Bendall, and M. Angelo (2019). MIBI-TOF: A multiplexed imaging platform relates cellular phenotypes and tissue structure. *Science Advances*, 5(10), eaax5851.
- E. R. Hannon, K. C. Jackson, B. J. Biggerstaff, V. Raman, and N. Komar (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. Pohlmeier, V. D. Gonzalez, A. Irrinki, R. N. Ramirez, L. Li, A. Mulato, J. P. Murry, A. Arvey, R. Hoh, S. G. Deeks, G. Kukulj, T. Cihlar, S. Pflanz, G. P. Nolan and G. Min-Oo (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, Y. Severin, V. R. T. Zanotelli, and B. Bodenmiller (2019). In-Depth Characterization of Monocyte-Derived Macrophages using a Mass Cytometry-Based Phagocytosis Assay. *Scientific reports*, 9(1), 1925.
- B. Sahaf, A. Rahman, H. T. Maecker, and S. C. Bendall (2020). High-Parameter Immune Profiling with CyTOF. In *Biomarkers for Immunotherapy of Cancer* (pp. 351-368). Humana, New York, NY.
- R. Hüttenhain, M. Choi, L. M. de la Fuente, K. Oehl, C.-Y. Chang, A.-K. Zimmermann, S. Malander, H. Olsson, S. Surinova, T. Clough, V. Heinzelmann-Schwarz, P. J. Wild, D. M. Dinulescu, E. Niméus, O. Vitek and R. Aebersold (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, H. Spiegel, H. Havenith, P. Rautenberger, N. Lidzba, S. Schillberg, and J. Lehmann (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, J. Babdor, P. F. Gherardini, E. D. Amir, K. Jones, B. Sahaf, D. M. Marquez, P. Krutzik, E. O'Donnell, N. Sigal, H. T. Maecker, E. Meyer, M. H. Spitzer, S. C. Bendall (2019). Comprehensive immune monitoring of clinical trials to advance human immunotherapy. *Cell reports*, 28(3), 819-831.
- Z. Baird, Z. Cao, M. R. Barron, A. Vorsilak, F. Deiss, and M. Puglia (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, K. Mackeben, and K. Stubenrauch (2019). Use of Ella[®] to facilitate drug quantification and antidrug antibody detection in preclinical studies. *Bioanalysis*, 11(03), 153-164.
- V. S. Josyula, T. Lakshmikanth, J. Mikes, Y. Chen, and P. Brodin, P. (2019). Systems-level immunomonitoring using self-sampled capillary blood. *bioRxiv*, 694521.
- J. K. Starzynski, J. Józwicki, M. Matusiak, J. Dzierzawski, J. Misiak, A. A. Brozyna, and W. Józwicki (2019). The effect of ROR α expression on the development of biological malignancy of urinary bladder cancer. *Medical Research Journal* 4(3):129-135.
- J. Hong, D. Kim, Y. Won, J. Yoon, K. J. Park, J. Oh, and C. W. Kim (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, A. Olin, T. Lakshmikanth, Y. Chen, and P. Brodin (2019). Automated Cell Processing for Mass Cytometry Experiments. In *Mass Cytometry* (pp. 111-123). Humana, New York, NY.

- A. Tagliapietra, J. C. Rotondo, I. Bononi, E. Mazzoni, F. Magagnoli, M. Maritati, C. Contini, F. Vesce, M. Tognon, and F. Martini (2019). Footprints of BK and JC polyomaviruses in specimens from females affected by spontaneous abortion. *Human Reproduction*, 34 (3), 433–440.
- H. Tang, K. Shah, T. Steinmetz, A. Abraham, H. Jensen, A. Bouton, K. Marullo, and S. Shi (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, F. Frontini, J. C. Rotondo, N. Zanotta, A. Fioravanti, F. Minelli, E. Torreggiani, G. Campisciano, A. Marcuzzi, G. Guerra, A. Tommasini, A. Touzé, F. Martini, M. Tognon, and M. Comar (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, M. A. Rapsomaniki, S. Chevrier, T. Anzeneder, C. Langwieder, A. Dykgers, M. Rees, A. Ramaswamy, S. Muenst, S. D. Soysal, A. Jacobs, J. Windhager, K. Silina, M. van den Broek, K. J. Dedes, M. Rodriguez Martinez, W. P. Weber, and B. Bodenmiller (2019). A Single-Cell Atlas of the Tumor and Immune Ecosystem of Human Breast Cancer. *Cell*, 177(5), 1330-1345.
- P. Leblebici, K. Leirs, D. Spasic, and J. Lammertyn (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, E. Fassi, A. Romanato, I. D'Annessa, M. T. Odinolfi, D. Brambilla, F. Damin, M. Chiari, A. Gori, G. Colombo, and M. Cretich (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, V. L. A. Santana, F. N. Corrêa, J. A. B. Tenório, and R. A. Mota (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.
- F. Voß, T. P. Kohler, T. Meyer, M. R. Abdullah, F. J. van Opzeeland, M. Saleh, S. Michalik, S. van Selm, F. Schmidt, M. I. de Jonge, and S. Hammerschmidt (2018). Intranasal vaccination with lipoproteins confers protection against pneumococcal colonisation. *Frontiers in immunology*, 9.
- A. A. Othman, A. Khatri, R. Loebbert, and P. M. Peloso (2019). Pharmacokinetics, Safety, and Tolerability of the Dual Inhibitor of Tumor Necrosis Factor- α and Interleukin 17A, ABBV-257, in Healthy Volunteers and Patients with Rheumatoid Arthritis. *Clinical pharmacology in drug development* 8(4), 492-502.
- R. Capelli, C. Peri, R. Villa, A. Nithichanon, O. Conchillo-Solé, D. Yero, P. Gagni, M. Chiari, G. Lertmemongkolchai, M. Cretich, X. Daura, M. Bolognesi, G. Colombo, and L. J. Gourlay (2018). BPSL1626: Reverse and Structural Vaccinology Reveal a Novel Candidate for Vaccine Design against *Burkholderia pseudomallei*. *Antibodies*, 7(3), 26.
- A. Gulbins, F. Schumacher, K. A. Becker, B. Wilker, M. Soddemann, F. Boldrin, C. P. Müller, M. J. Edwards, M. Goodman, C. C. Caldwell, B. Kleuser, J. Kornhuber, I. Szabo, and E. Gulbins (2018). Antidepressants act by inducing autophagy controlled by sphingomyelin–ceramide. *Molecular psychiatry*, 1.
- P. J. Meakin, A. Mezzapesa, E. Benabou, M. E. Haas, B. Bonardo, M. Grino, J.-M. Brunel, C. Desbois-Mouthon, S. B. Biddinger, R. Govers, M. L. J. Ashford, and F. Peiretti (2018). The beta secretase BACE1 regulates the expression of insulin receptor in the liver. *Nature communications*, 9(1), 1306.
- W. S. Chen, N. Zivanovic, D. van Dijk, G. Wolf, B. Bodenmiller, and S. Krishnaswamy (2018). Embedding the single-cell sample manifold to reveal insights into cancer pathogenesis and disease heterogeneity. *bioRxiv*, 455436.
- Y. P. Zhu, L. Padgett, H. Q. Dinh, P. Marcovecchio, A. Blatchley, R. Wu, E. Ehinger, C. Kim, Z. Mikulski, G. Seumois, A. Madrigal, P. Vijayanand, and C. C. Hedrick (2018). Identification of an Early Unipotent Neutrophil Progenitor with Pro-tumoral Activity in Mouse and Human Bone Marrow. *Cell reports*, 24(9), 2329-2341.
- Y. P. Zhu, L. Padgett, H. Q. Dinh, P. Marcovecchio, R. Wu, D. Hinz, C. Kim and C. C. Hedrick (2019). Preparation of Whole Bone Marrow for Mass Cytometry Analysis of Neutrophil-lineage Cells. *J. Vis. Exp.* (148), e59617, doi:10.3791/59617.
- L. Keren, M. Bosse, D. Marquez, R. Angoshtari, S. Jain, S. Varma, S.-R. Yang, A. Kurian, D. van Valen, R. West, S. C. Bendall, and M. Angelo (2018). A structured tumor-immune microenvironment in triple negative breast cancer revealed by multiplexed ion

beam imaging. *Cell*, 174(6), 1373-1387.

C. J. Guo, B. Allen, K. Hiam, D. Dodd, W. van Treuren, S. Higginbottom, C. Fischer, J. Sonnenburg, M. Spitzer, and M. Fischbach, M. (2018). Depletion of microbiome-derived molecules in the host using *Clostridium* genetics. *bioRxiv*, 401489.

J. Harnofi, J. Rynefi, P. Vířiková, S. Foldynová-Trantířková, L. Bajard-Efiner, L. Trantířek, and V. Bryja (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, E. F. Simonds, and S. C. Bendall (2018). A Universal Live Cell Barcoding-Platform for Multiplexed Human Single Cell Analysis. *Scientific reports*, 8(1), 10770.

S. Krishnaswamy, N. Zivanovic, R. Sharma, D. Pe'er, and B. Bodenmiller, B. (2018). Learning time-varying information flow from single-cell epithelial to mesenchymal transition data. *PloS one*, 13(10), e0203389.

Z. Wang, Z. Liu, F. Yu, J. J. & Jin, J. Z. (2018). β -Bourbonene attenuates proliferation and induces apoptosis of prostate cancer cells. *Oncology letters*, 16(4), 4519-4525.

T. Wielkoszynski, A. Moghaddam, A. Bäckman, J. Broden, R. Piotrowski, R., Mond-Paszek, A. Kozarenko, T. Ny, and M. Wilczynska (2018). Novel diagnostic ELISA test for discrimination between infections with *Yersinia enterocolitica* and *Yersinia pseudotuberculosis*. *European Journal of Clinical Microbiology & Infectious Diseases*, 1-6.

F. Rűger, J. Schäfer, U. Bakowski, M. Keusgen, and D. Vornicescu (2018). A Novel N-Substituted Pyrrole Based Surface Modification for Biosensing. *physica status solidi (a)*, 1800030.

Bengsch, B., Ohtani, T., Herati, R. S., Bovenschen, N., Chang, K. M., & Wherry, E. J. (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, J. S. Suwandi, V. van Unen, J. Pool, J. Wesselius, T. Höllt, N. Pezzotti, A. Vilanova, B. P. F. Lelieveldt, B. O. Roep (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, T. Lakshmikanth, A. Olin, J. Mikes, M. Remberger, and P. Brodin (2018). Continuous Immune Cell Differentiation Inferred From Single-Cell Measurements Following Allogeneic Stem Cell Transplantation. *Frontiers in Molecular Biosciences*, 5.

S. J. Santegoets, V. J. van Ham, I. Ehsan, P. Charoentong, C. L. Duurland, V. van Unen, T. Höllt, L.-A. van der Velden, S. I. van Egmond, P. J. de Vos van Steenwijk, M. I. E. van Poelgeest, M. J. P. Welters, and S. H. van der Burg (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, E. Mazzoni, S. Pietrobon, E. Torreggiani, M. Rossini, S. Violanti, P. Perri, M. Tognon, and F. Martini (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, I. Bononi, M. S. Benassi, P. Picci, E. Torreggiani, M. Rossini, A. Simioli, M. V. Casali, P. Rizzo, M. Tognon, and F. Martini (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, J. Kenny, K. Chen, M. Onega, N. Garman, R. J. Slack, C. A. Parker, R. T. Lumbers, W. Hallet, A. Saleem, J. Passchier, and P. T. Lukey (2018). A Microdose PET Study of the Safety, Immunogenicity, Biodistribution, and Radiation Dosimetry of ¹⁸F-FB-A20F-MDV2 for Imaging the Integrin $\alpha\beta$ 6. *Journal of nuclear medicine technology*, 46(2), 136-143.

M. Myzithras, T. Bigwarfe, E. Waltz, H. Li, J. Ahlberg, I. Rybina, S. Low, C. Hess Kenny, J. Miglietta, and R. Kroe-Barrett, R. (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, Anna Mezzapesa, E. Benabou, M. E. Haas, B. Bonardo, M. Grino, J.-M. Brunel, C. Desbois-Mouthon, S. B. Biddinger, R. Govers, M. L. J. Ashford, and F. Peiretti (2018). The beta secretase BACE1 regulates the expression of insulin receptor in the liver. *Nature communications*, 9(1), 1306.

F. A. P. Vatter, D. Schapiro, H. Chang, A. D. Borowsky, J. K. Lee, B. Parvin, M. R. Stampfer, M. A. LaBarge, B. Bodenmiller, and J. B.

- Lorens (2018). High-Dimensional Phenotyping Identifies Age-Emergent Cells in Human Mammary Epithelia. *Cell reports*, 23(4), 1205-1219.
- B. Ajami, N. Samusik, P. Wieghofer, P. P. Ho, A. Crotti, Z. Bjornson, M. Prinz, W. J. Fantl, G. P. Nolan, and L. Steinman (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, K. Windsperger, K. Petroczi, S. Pils, B. Reiter, T. Weiss, S. Vondra, R. Ristl, S. Dekan, C. Fiala, D. E. Cantonwine, T. F. McElrath, B. Jilma, M. Knöfler, T. Boehm, and J. Pollheimer (2018). Pregnancy-associated diamine oxidase originates from extravillous trophoblasts and is decreased in early-onset preeclampsia. *Scientific reports*, 8(1), 6342.
- K. Schmoeckel, D. M. Mrochen, J. Hühn, C. Pötschke, and B. M. Bröker (2018). Polymicrobial sepsis and non-specific immunization induce adaptive immunosuppression to a similar degree. *PloS one*, 13(2), e0192197.
- M. A. Rapsomaniki, X. K. Lun, S. Woerner, M. Laumanns, B. Bodenmiller, M. R. Martínez (2018). CellCycleTRACER accounts for cell cycle and volume in mass cytometry data. *Nature communications*, 9(1), 632.
- O. Poetz, T. Dieze, H. Hammer, F. Weiß, C. Sommersdorf, M. F. Templin, C. Esdar, A. Zimmermann, S. Stefanovic, J. Bedke, A. Stenzl, and T. O. Joos (2018). Peptide-Based Sandwich Immunoassay for the Quantification of the Membrane Transporter Multidrug Resistance Protein 1. *Analytical chemistry*, 90(9), 5788-5794.
- U. Wessels, M. Zadak, A. Reiser, J. Brockhaus, M. Ritter, A. Abdolzade-Bavil, J. Heinrich, and K. Stubenrauch (2018). Immunogenicity testing of therapeutic antibodies in ocular fluids after intravitreal injection. *Bioanalysis*, (0).
- Y. Wu, J. Ma, Y. Wang, Y. Zhang, Y. Hou, C. Zhang, H. Sun, J. Sun, Z. Wang, and N. Li (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, J. Idkowiak, T. F. Gesteira, C. Vallet, R. Hardman, J. van den Boom, V. Dhir, S. K. Knauer, E. Rosta, and W. Arlt (2018). Human DHEA sulfation requires direct interaction between PAPS synthase 2 and DHEA sulfotransferase SULT2A1. *Journal of Biological Chemistry*, jbc-RA118.
- G. Dzangué-Tchoupou, A. Corneau, C. Blanc, O. Benveniste, and Y. Allenbach, Y. (2018). Analysis of cell surface and intranuclear markers on non-stimulated human PBMC using mass cytometry. *PloS one*, 13(3), e0194593.
- I. Bononi, E. Mazzone, S. Pietrobon, M. Manfredini, E. Trregiani, M. Rossini, F. Lotito, G. Guerra, P. Rizzo, F. Martini, and M. Tognon, (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, N. Dassinger, D. Vornicescu, and M. Keusgen (2018). Development of a borreliosis assay: Mannan coated polyethylene sinter bodies as a new platform technology. *Analytical biochemistry*, 543, 55-61.
- D. H. Kwon, I. H. Jeong, S. W. Lee, and S. H. Lee (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, U. Sauer, S. Doppler, and C. Preininger (2018). Investigating Colorimetric Protein Array Assay Schemes for Detection of Recurrence of Bladder Cancer. *Biosensors*, 8(1), 10.
- Polymicrobial sepsis and non-specific immunization induce adaptive immunosuppression to a similar degree. *PLoS ONE*, 13(2), e0192197.
- T. Lakshmikanth, A. Olin, Y. Chen, J. Mikes, E. Fredlund, M. Remberger, B. Omazic, and P. Brodin (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, V. R. Zanotelli, J. D. Wade, D. Schapiro, M. Tognetti, N. Dobberstein, and B. Bodenmiller, B. (2017). Influence of node abundance on signaling network state and dynamics analyzed by mass cytometry. *Nature biotechnology*, 35(2), 164-172.
- S. Krishnaswamy, N. Zivanovic, R. Sharma, D. Pe'er, and B. Bodenmiller, B. (2017). Learning Edge Rewiring in EMT from Single Cell Data. *bioRxiv*, 155028.

- K. Kravchenko, A. Kulawik, M. Hülsemann, K. Kühbach, C. Zafiu, Y. Herrmann, C. Linnartz, L. Peters, T. Bujnicki, J. Willbold, O. Banach, and D. Willbold (2017). Analysis of anticoagulants for blood-based quantitation of amyloid β oligomers in the sFIDA assay. *Biological chemistry*, 398(4), 465-475.
- Z. Djaoud, L. A. Guethlein, A. Horowitz, T. Azzi, N. Nemat-Gorgani, D. Olive, D. Nadal, P. J. Norman, C. Münz, and P. Parham (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, S. Y. Chen, V. D. Gonzalez, E. R. Zunder, W. J. Fantl, and G. P. Nolan (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, F. Pessler, M. K. Akmatov, G. Krause, D. Duffy, B. Gärtner, M. Gerhard, M. L. Albert, T. O. Joos, and N. Schneiderhan-Marra (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, J. C. Göpfert, D. Duffy, S. Pol, M. Abdel-Hamid, G. Esmat, A. Fontanet, M. L. Albert, T. O. Joss, and N. Schneiderhan-Marra (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, S. Y., Park, C. G. Lee, N. Okino, M. Ito, M., and J. H. Kim (2017). Enhancing the sialylation of recombinant EPO produced in CHO cells via the inhibition of glycosphingolipid biosynthesis. *Scientific reports*, 7(1), 13059.
- K. Staufer, M. Dengler, H. Huber, R. Marculescu, R., Stauber, C. Lackner, H.-P. Dienes, D. Kivaranovic, C. Schachner, M. Zeitlinger, B. Wulkersdorfer, P. Rauch, G. Prager, M. Trauner, and W. Mikulits (2017). The non-invasive serum biomarker soluble Axl accurately detects advanced liver fibrosis and cirrhosis. *Cell death & disease*, 8(10), e3135.
- Pugia, M., Magbanua, M. J. M., & Park, J. W. (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.
- Y. Kaiser, T. Lakshmikanth, Y. Chen, J. Mikes, A. Eklund, P. Brodin, A. Achour, and J. Grunewald, J. (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, K. Staufer, H. Huber, R. Stauber, H. Bantel, K.H. Weiss, P. Starlinger, H. Pock, P. Klöters-Plachky, D. N. Gotthardt, P. Rauch, C. Lackner, J. Stift, C. Brostjan, T. Gruenberger, T. Kumada, H. Toyoda, T. Tada, T. S. Weiss, M. Trauner, and W. Mikulits (2017). Soluble Axl is an accurate biomarker of cirrhosis and hepatocellular carcinoma development: results from a large scale multi-center analysis. *Oncotarget*, 8(28), 46234.
- M. T. Ghorri, M. S. Khan, J. A. Khan, M. Rabbani, M. Z. Shabbir, H. R. Chaudhry, M. A. Ali, J. Muhammad, M. C. Elschner, and B. M Jayarao (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, J. Goepfert, A. Omlin, A. Athanasiou, P. Tennstedt, A. Guenther, M. Rainisio, D. S. Engeler, T. Steuber, S. Gillissen, T. Joos, and R. Schiess (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, P. Leblebici, J. Lammertyn, and D. Spasic (2017). Fast multiplex analysis of antibodies in complex sample matrix using the microfluidic Evaluation™ platform. *Analytica chimica acta*, 982, 193-199.
- S. Baumgart, A. R. Schulz, A. Peddinghaus, S. Stanislawiak, S. Gillert, H. Hirsland, S. Krauthäuser, C. Dose, H. E. Mei, and A. Grützkau (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*.
- A. Stikvoort, Y. Chen, E. Rådestad, J. Törlén, T. Lakshmikanth, A. Björklund, J. Mikes, A. Achour, J. Gertow, B. Sundberg, M. Remberger, M. Sundin, J. Mattson, P. Brodin, and M. Uhlin (2017). Combining Flow and Mass Cytometry in the Search for Biomarkers in Chronic Graft-versus-Host Disease. *Frontiers in Immunology*, 8:717.
- U. Wessels, E. Schick, M- Ritter, F. Kowalewsky, J. Heinrich, and K. Stubenrauch (2017). Novel drug and soluble target tolerant

antidrug antibody assay for therapeutic antibodies bearing the P329G mutation. *Bioanalysis*, (o).

M. Roussel, P. B. Ferrell, A. R. Greenplate, F. Lhomme, S. Le Gallou, K. E. Diggins, D. B. Johnson, and J. M. Irish (2017). Mass cytometry deep phenotyping of human mononuclear phagocytes and myeloid-derived suppressor cells from human blood and bone marrow. *Journal of Leukocyte Biology*, jlb-5MA1116.

E. Mazzoni, M. Di Stefano, J. R. Fiore, F. Destro, M. Manfrini, J. C. Rotondo, M. V. Casali, F. Vesce, P. Greco, G. Scutiero, F. Martini, and M. G. Tognon (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, S. Pietrobon, M. Bilancia, F. Vinante, A. Rigo, I. Ferrarini, A. D'Agostino, M. V. Casali, F. Martini, and M. Tognon (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, D. Grumann, P. Trübe, K. Pritchett-Corning, S. Johnson, K. Reppschläger, J. Gumz, N. Sundaramoorthy, S. Michalik, S. Berg, J. van den Brandt, R. Fister, S. Monecke, B. Uy, F. Schmidt, B. M. Bröker, S. Wiles, and S. Holtfreter (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, S. Pils, E. Gludovacz, H. Szoelloesi, K. Petroczi, O. Majdic, A. Quaroni, N. Borth, P. Valent, and B. Jilma (2017). Quantification of human diamine oxidase. *Clinical Biochemistry*, 50(7-8), 444-451.

X. K. Lun, V. R. Zanotelli, J. D. Wade, D. Schapiro, M. Tognetti, N. Dobberstein, and B. Bodenmiller (2017). Influence of node abundance on signaling network state and dynamics analyzed by mass cytometry. *Nature Biotechnology* 35, 164–172.

E. Porpiglia, N. Samusik, A. T. Van Ho, B. D. Cosgrove, T. Mai, K. L. Davis, A. Jager, G. P. Nolan, S. C. Bendall, W. J. Fantl, and H. M. Blau (2017). High-resolution myogenic lineage mapping by single-cell mass cytometry. *Nature Cell Biology*.

M. H. Spitzer, Y. Carmi, N. E. Reticker-Flynn, S. S. Kwek, D. Madhiredy, M. M. Martins, P. F. Gheradini, T. R. Prestwood, J. Chabon, S. C. Bendall, L. Fong, G. P. Nolan, and E. G. Engleman (2017). Systemic Immunity Is Required for Effective Cancer Immunotherapy. *Cell*, 168(3), 487-502.

Diggins, K. E., Greenplate, A. R., Leelatian, N., Wogsland, C. E., & Irish, J. M. (2017). Characterizing cell subsets using marker enrichment modeling. *Nature Methods*, 14(3), 275-278.

H. Schneider, E. Szabo, R. A. Machado, A. Broggin-Tenzer, A. Walter, M. Lobell, D. Heldmann, F. Süßmeier, S. Grünewald, and M. Weller (2017). Novel TIE-2 Inhibitor BAY-826 Displays In Vivo Efficacy in Experimental Syngeneic Murine Glioma Models. *Journal of Neurochemistry*. DOI: 10.1111/jnc.13877

J. Blazkova, S. Gupta, Y. Liu, B. Gaudilliere, E. A. Ganio, C. R. Bolen, R. Saar-Dover, G. K. Fragiadakis, M. S. Angst, S. Hasni, N. Aghaeepour, D. Stevenson, N. Baldwin, E. Anguiano,

D. Chaussabel, M. C. Altman, M. J. Kaplan, M. M. Davis and D. Furman (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, I. Bononi, E. Mazzoni, F. Lotito, M. Manfrini, A. Puozzo, F. Destro, G. Guerra, P. F. Nocini, F. Martini, and M. G. Tognon, M. G. (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, X. Hu, R. S. Jung, T. A. Weston, N. P. Sandoval, P. Tontonoz, M. R. Kilburn, L. G. Fong, S. G. Young, and H. Jiang (2017). High-resolution imaging and quantification of plasma membrane cholesterol by NanoSIMS. *Proceedings of the National Academy of Sciences*, 201621432.

E. Mazzoni, G. Guerra, M. V. Casali, S. Pietrobon, I. Bononi, A. Puozzo, A. Tagliapietra, P. F. Nocini, M. Tognon, and F. Martini, F. (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, K. G. Stubenrauch, J. Heinrich, J., and R. F. Staack, R. F. (2017). 3-(4-Hydroxyphenyl) propionic acid: the forgotten detection substrate for ligand-binding assay-based bioanalysis. *Bioanalysis* 9(4), 407-418.

- S. Pöhlmann, A. Krüger, W. Hafezi, S. Schneider, J. Gruber, M. Winkler, and A. Kaul (2017). Detection systems for antibody responses against herpes B virus. *Primate Biology*, 4(1), 9.
- F. Schmidt, T. Meyer, N. Sundaramoorthy, S. Michalik, K. Surmann, M. Depke, V. Dhoble, M. G. Salazar, G. Holtappels, N. Zhang, B. M. Bröker, C. Bachert, and U. Völker (2017). Characterization of human and *Staphylococcus aureus* proteins in respiratory mucosa by in vivo-and immunoproteomics. *Journal of Proteomics*, 155, 31-39.
- L. Mattsson, C. Jungmann, P. A. Lieberzeit, and C. Preininger (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, M. Tognon and F. Martini (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, M. Parmvi, M. Strömberg, P. Svedlindh, M. Donolato, and M. F. Hansen (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, A. Cosma, S. Even, C. Katlama, R. Legrand, V. Frachet, C. Blanc, and B. Autran (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, M. Hülsemann, Y. Herrmann, K. Kravchenko, A. Kulawik, A., C. Linnartz, L. Peters, K. Wang, J. Willbold, D. Willbod, and O. Bannach, (2016). Application of an Amyloid Beta Oligomer Standard in the sFIDA Assay. *Frontiers in neuroscience*, 10. doi: 10.3389/fnins.2016.00008.
- M. Dengler, H. Huber, C. J. Müller, A. Zellmer, P. Rauch, & W. Mikulits (2016). Accurate Determination of Soluble Axl by Enzyme-Linked Immunosorbent Assay. *ASSAY and Drug Development Technologies*, 14(9), 543-550.
- K. Schlack, L. M. Krabbe, M. Fobker, A. J. Schrader, A. Semjonow, and M. Boegemann (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, D. S. Mattes, S. Schillo, B. Münster, A. Palermo, B. Ridder, A. Welle, V. Trouilett, V. Stadler, G. Markovic, G. Proll, S. Bräse, F. F. Löffler, A. Nesterov-Müller, and F. Breitling (2016). Replication of Polymer-Based Peptide Microarrays by Multi-Step Transfer. *ChemNanoMat*, 2(9), 897-903.
- K. Kleinsteuber, B. Corleis, N. Rashidi, N. Nchinda, A. Lisanti, J. L. Cho, B. D. Medoff, D. Kwon, and B. D. Walker (2016). Standardization and quality control for high-dimensional mass cytometry studies of human samples. *Cytometry Part A*, 89(10), 903-913.
- S. Kiesgen, A. Schröder, T. Schwarz, O. Czupalla, M. Braun, M. J. Gnoth, M. J., and J. Grudzinska-Goebel (2016). Bypassing non-parallelism of a monoclonal antibody ligand-binding assay by employment of alternative assay formats. *Bioanalysis*, 8(24), 2581-2593.
- A. Ulcinas, L. M. Picco, M. Berry, J. H. Hörber, and M. J. Miles (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, L. J. Blum, and C. A. Marquette (2016). Adding biomolecular recognition capability to 3D printed objects. *Anal. Chem.*, 2016, 88 (21), 10767-10772
- S. Vordenbäumen, A. Lueking, P. Budde, H. D. Zucht, H. Goehler, R. Brinks, R. Fischer-Betz, J. Richter, E. Bleck, J. Detert, H.-E. Langer, A. Sörgel, G.-R. Burmester, P. Schulz-Knappe and M. Schneider (2016). Sequential high-content profiling of the IgG-autoantibody repertoire reveals novel antigens in rheumatoid arthritis. *Arthritis research & therapy*, 18(1), 235.
- U. Wessels, A. Poehler, M. Moheysen-Zadeh, M. Zadak, R. F. Staack, P. Umana, J. Heinrich and K. Stubenrauch (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, A. Pribowo, and J. N. Saddler (2016). Oxidative cleavage of some cellulosic substrates by auxiliary activity (AA) family 9 enzymes influences the adsorption/desorption of hydrolytic cellulase enzymes. *Green Chemistry*. DOI: 10.1039/C6GC02288J

- W. H. Choi, H. R. Jo, E.-J. Jeon, S.-Y. Youm, J. S. Jeon, Y.-G. Son, W.-K. You, W. S. Koh, S. H. Lee, S. K. Kim (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, S. Jeong, J. Lee, I. S. Yeo, M. J. Oh, U. Kim, S. Kim, S. H. Kim, S.-Y. Park, J.-H. Kim, S. H. Park, J. H. Kim and H. J. An (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, A. Gaida, A. Kropf, M. W. Nolte, R. Bolli, and S. M. Miescher (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, A. Schillert, A. Ziegler, A., Lüking, H. D. Zucht, and P. Schulz-Knappe (2016). Comparison of pre-processing methods for multiplex bead-based immunoassays. *BMC genomics*, 17(1), 601.
- M. Fá, D. Puzzo, R. Piacentini, A. Staniszewski, H. Zhang, M. A. Baltrons, D. D. Li Puma, I. Chatterjee, J. Li, F. Saeed, H. L. Berman, C. Ripoli, W. Gulisano, J. Gonzalez, H. Tian, J. A. Costa, P. Lopez, E. Davidowitz, W. H. Yu, V. Haroutunian, L. M. Brown, A. Palmeri, E. M. Sigurdsson, K. E. Duff, A. F. Teich, L. S. Honig, M. Sierks, J. G. Moe, L. D'Adamio, C. Grass, N. M. Kanaan, P. E. Fraser, and O. Arancio (2016). Extracellular Tau Oligomers Produce An Immediate Impairment of LTP and Memory. *Nature Scientific reports*, 6.
- A. Lathuiliere, V. Laversenne, A. Astolfo, E. Kopetzki, H. Jacobsen, M. Stampanoni, B. Bohrmann, B. L. Schneider, and P. Aebischer (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, S. Gogalic, U. Sauer, C. Preininger, H. Pandha, G. Simpson, A. Horvath, and C. Marquette (2016). Multiplatform biomarker discovery for bladder cancer recurrence diagnosis. *Disease markers*, 2016. <http://dx.doi.org/10.1155/2016/4591910>
- P. Budde, H. D. Zucht, S. Vordenbäumen, H. Goehler, R. Fischer-Betz, M. Gamer, K. Marquart, P. Rengers, J. Richter, A. Lueking, P. Schulz-Knappe and M. Schneider (2016). Multiparametric detection of autoantibodies in systemic lupus erythematosus. *Lupus*, 25(8), 812-822.
- C. H. Vu, J. Kolata, S. Stentzel, A. Beyer, M. G. Salazar, L. Steil, J. Pané-Farré, V. Rühmling, S. Engelmann, F. Götz, J. M. van Dijn, M. Hecker, U. Mäder, F. Schmidt, U. Völker, and B. M. Bröker (2016). Adaptive immune response to lipoproteins of *Staphylococcus aureus* in healthy subjects. *Proteomics*. DOI: 10.1002/pmic.201600151
- O. I. Berthuy, L. J. Blum, L. J., and C. A. Marquette (2016). Cancer-Cells on Chip for Label-Free Detection of Secreted Molecules. *Biosensors*, 6(1), 2.
- C. Peri, A. Gori, P. Gagni, L. Sola, D. Girelli, S. Sottotetti, L. Cariani, M. Chiari, M. Cretich, and G. Colombo (2016). Evolving serodiagnostics by rationally designed peptide arrays: the Burkholderia paradigm in Cystic Fibrosis. *Scientific reports*, 6, 32873.
- Z. R. Baird, V. Pirro, S. Ayrton, A. Hollerbach, C. E. Hanau, K. Marfurt, M. Foltz, R. G. Cooks, and M. Puglia (2016). Tumor Cell Detection by Mass Spectrometry using Signal Ion Emission Reactive Release Amplification (SIERRA). *Analytical Chemistry*. DOI: 10.1021/acs.analchem.6b02043
- D. Pejowski, N. Tchitchev, A. R. Pozo, J. Elh mouzi-Younes, R. Yousfi-Bogniaho, C. Rogez-Kreuz, P. Clayette, N. Dereuddre-Bosquet, Y. Levy, A. Cosma; R. Le Grand, and A.-S. Beignon (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, N. Li, I. Molendijk, M. Temurhan, T. Höllt, A. E. van der Meulen-de Jong, H. W. Verspaget, M. L. Mearin, C. J. Mulder, J. van Bergen, B. P. F. Lelieveldt, and F. Koning (2016). Mass Cytometry of the Human Mucosal Immune System Identifies Tissue- and Disease-Associated Immune Subsets. *Immunity*, 44(5), 1227-1239.
- D. S. Mattes, J. Striffler, B. Ridder, V. Trouillet, F. Loeffler, S. Braese, F. Breitling, A. Palermo, B. Muenster, A. Nesterov-Mueller, S. Schillo, G. Markovic, V. Stadler, G. Proll, and A. Welle (2016). Replication of Polymer Based Peptide Microarrays by Multi Step Transfer. *ChemNanoMat*. DOI: 10.1002/cnma.201600194
- L. Li, P. Saliba, S. Reischl, H. H. Marti, and R. Kunze, R. (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, R. Kunze, X. Helluy, D. Milford, S. Heiland, M. Bendszus, M. Pham, and H. H. Marti, (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, D. Gruneberg, H. H. Marti, and R. Kuznets, R. (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, F. A. Montellano, K. Plaschke, L. Li, H. H. Marti, and R. Kunze (2016). Neuronal prolyl-4-hydroxylase 2 deficiency improves cognitive abilities in a murine model of cerebral hypoperfusion. *Experimental neurology*, 286, 93-106.
- K. Kühbach, M. Hülsemann, Y. Herrmann, K. Kravchenko, A. Kulawik, C. Linnartz, P. Luriano, W. Kun, J. Willbold, D. Willbold, and O. Bannach, O. (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 α s1-Casein Variants by Peptide Microarray Immunoassay. *Methods in molecular biology* (Clifton, NJ), 1352, 279-296.
- M. Brazzoli, D. Magini, A. Bonci, S. Buccato, C. Giovani, R. Kratzer, V. Zurli, S. Mangiavacchi, D. Casini, L. M. Brito, E. De Gregorio, P. W. Mason, J. B. Ulmer, A. J. Geall and S. Bertholet (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, T. Schirrmann, M. J. Knape, S. Helmsing, D. Meier, M. Hust, C. Schröder, D. Bertinetti, G. Winter, K. Pardes, M. Funk, A. Vala, N. Giese, F. W. Herberg, S. Dübel, J. D. Hoheisel (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, G. C. Le Goff, C. A. Mandon, B. P. Corgier, L. J. Blum, L. J., and C. A. Marquette (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, A. Corallini, M. Manfrini, A. Taronna, J. S. Butel, S. Pietrobon, L. Trevisiol, I. Bononi, E. Vaccher, G. Barbanti-Brodano, F. Martini, and E. Mazzoni (2016). Specific Antibodies Reacting with SV40 Large T Antigen Mimotopes in Serum Samples of Healthy Subjects. *PLoS one*, 11(1), e0145720.
- S. Hofmann, Y. Huang, P. Paulicka, A. Kappel, H. A. Katus, A. Keller, B. Meder, C. F. Stähler, and W. Gumbrecht (2015). Double-Stranded Ligation Assay for the Rapid Multiplex Quantification of MicroRNAs. *Analytical chemistry*, 87(24), 12104-12111.
- G. K. Behbehani, N. Samusik, Z. B. Bjornson, W. J. Fantl, B. C. Medeiros, and G. P. Nolan (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, E. A. Ganio, M. Tingle, H. L. Lancero, G. K. Fragiadakis, Q. J. Baca, N. Aghaeepour, R. J. Wong, C. Quintance, Y. Y. Al-Sayed, G. M., D. B. Lewis, D. K. Stevenson, G. P. Nolan, and M. S. Angst (2015). Implementing mass cytometry at the bedside to study the immunological basis of human diseases: distinctive immune features in patients with a history of term or preterm birth. *Cytometry Part A*, 87(9), 817-829.
- H. E. Mei, M. D. Leipold, M. D., and H. T. Maecker (2015). Platinum-conjugated antibodies for application in mass cytometry. *Cytometry Part A*.
- R. F. Staack, G. Jordan, M. Viert, M Schäfer, A. Papadimitriou, and J. Heinrich (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, M. L. Caballero, A. Umpierrez, M. Lluch-Bernal, T. Knaute, T., and R. Rodríguez-Pérez (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, C. Künzel, R. Vogel, D. Tuerck, E. Schick, and J. Heinrich, J. (2015). Epitope characterization of the ADA response directed against a targeted immunocytokine. *Journal of Pharmaceutical and Biomedical Analysis*, 114, 296-304.
- S. Gogalic, S. Hageneder, C. Ctortocka, M. Bauch, I. Khan, C. Preininger, U. Sauer, and J. Dostalek (2015). Plasmonically amplified fluorescence bioassay with microarray format. In *SPIE Optics+ Optoelectronics* (pp. 95060N-95060N). International Society for Optics and Photonics. doi:10.1117/12.2179470
- S. A. Boccoz, G. Le Goff, L. J. Blum, and C. A. Marquette (2015). Microarrays in Blood Group Genotyping. *Molecular Typing of Blood Cell Antigens*, 105.

- M. Tognon, M. Luppi, A. Corallini, A. Taronna, P. Barozzi, J. C. Rotondo, M. Comar, M. V. Casali, M. Bovenzi, A. D'Agostino, F. Vinante, A. Rigo, I. Ferrarini, G. Barbanti-Brodano, F. Martini, and E. Mazzoni, (2015). Immunologic evidence of a strong association between non-Hodgkin lymphoma and simian virus 40. *Cancer*. doi: 10.1002/cncr.29404
- O. I. Berthuy, L. J. Blum, and C. A. Marquette (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, E. Gharthey-Tagoe, S. Gallorini, B. Baudner, G. Chen, P. Singh, D. T. O'Hagan and S. Kommareddy, (2015). Fabrication of cell culture-derived influenza vaccine dissolvable microstructures and evaluation of immunogenicity in guinea pigs. *Vaccine*, 33(25), 2930-2938.
- L. Hansmann, L. Blum, C. Hsin-Ju, M. Liedtke, W. Robinson, and M. M. Davis, (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, B. Lorenz, and K. Stieger, (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, R. W. Veltri, Z. Yuan, C. S. Christudass, and W. Mandecki, (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, M. S. Benassi, A. Corallini, G. Barbanti-Brodano, A. Taronna, P. Picci, G. Guerra, A. D'Agostino, L. Trevisiol, P. F. Nocini, M. V. Casali, G. Barbanti-Brodano, F. Martini, and M. Tognon (2015). Significant association between human osteosarcoma and simian virus 40. *Cancer* 121.5: 708-715.
- Z. Kobalava, S. Villevalde, Y. Kotovskaya, H. Hinrichsen, M. Petersen-Sylla, A. Zaehring, Y. Pang, I. Rajman, J. Canadi, M. Dahlke, P. Loyd, and A. Halabi (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, M. M. Arshad, S. C. Gopinath, U. Hashim, R. Adzhri, R. M. Ayub, A. R. Ruslinda, M. Nuzeihan, A. H. Azman, M. Zaki, and T. H. Tang, (2015). Diagnostics on acute myocardial infarction: Cardiac troponin Biomarkers. *Biosensors and Bioelectronics*, 70, 209-220.
- R. Faggioli, E. Mazzoni, C. Borgna-Pignatti, C., A. Corallini, G. Turlà, A.P. Taronna, E. Fiumana, F. Martini, and M. Tognon, M. (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, N. A. Panella, G. R. Young, and A. J. Basile, (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, C. Haake, H. Sager, S. S. Weber, R. Kaminsky, S. Buschbaum, D. Joekel, S. Schicht, E. Kremmer, J. Korrel, T. Schnieder, and G. von Samson-Himmelstjerna, G. (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, A. Urrutia, A. Hoffmann, H. Liu, X. Helluy, M. Pham, S. Reischl, T. Korff, and H. H. Marti (2015). Dimethyl fumarate attenuates cerebral edema formation by protecting the blood-brain barrier integrity. *Experimental neurology*, 266, 99-111.
- S. Gogalic, U. Sauer, S. Doppler, and C. Preininger, (2015). Bladder cancer biomarker array to detect aberrant levels of proteins in urine. *Analyst*, 140(3), 724-735.
- H. E. Mei, M. D. Leipold, A. R. Schulz, C. Chester, and H. T. Maecker, (2015). Barcoding of Live Human Peripheral Blood Mononuclear Cells for Multiplexed Mass Cytometry. *The Journal of Immunology*, 1402661.
- M. J. Dorresteijn, A. Paine, E. Zilian, M. G. Fenten, E. Frenzel, S. Janciauskiene, C. Figueiredo, B. Eiz-Vesper, R. Blasczyk, D. Dekker, B. Pennings, A. Scharstuhl, P. Smits, J. Larmann, G. Theilmeyer, J. G. van der Hoeven, F. A. D. T. G. Wagener, P. Pickkers, and S. Im-menschuh (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.
- Zhang, Y., Bai, J., and Ying, J.Y. (2015). A stacking flow immunoassay for the detection of dengue-specific immunoglobulins in salivary fluid. *Lab on a Chip* 15, 1465-1471.

- B. Brackeva, V. De Punt, G. Kramer, O. Costa, K. Verhaeghen, G. Stangé, J. Sadones, C. Xavier, J.M.F.G. Aerts, F.K. Gorus, and G.A. Martens, (2015). Potential of UCHL1 as biomarker for destruction of pancreatic beta cells. *Journal of Proteomics* 117, 156-167.
- P. Pierog, M Krishna, A. Yamniuk, A. Chauhan, and B. DeSilva, B. (2015). Detection of drug specific circulating immune complexes from in vivo cynomolgus monkey serum Samples. *Journal of immunological methods* 416, 124-126.
- I. Lehmphul, G. Brabant, H. Wallaschofski, M. Ruchala, C. J. Strasburger, J. Köhrle, J., and Z. Wu, (2014). 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, E. Mazzoni, M. Felletti, G. Turlà, C. Malaventura, M. D. Cappellini, P. Cianciulli, G. L. Forni, A. Carollini, F. Martini, and M. Tognon (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, C. Thom, E. R. Zunder, R. Finck, B. Gaudilliere, G. K. Fragiadakis, W. J. Fantl, and G. P. Nolan (2014). Transient partial permeabilization with saponin enables cellular barcoding prior to surface marker staining. *Cytometry Part A*, 85(12), 1011-1019.
- E. Mazzoni, F. Martini, A. Corallini, A. Taronna, G. Barbanti-Brodano, P. Querzoli, E. Magri, J. C. Rotondo, R. Dolcetti, E. Vaccher, and M. Tognon Ph.D (2014). Serologic investigation on undifferentiated nasopharyngeal carcinoma and Simian Virus 40 infection. *Head & neck*. DOI: 10.1002/hed.23879
- M. Comar, C. Wong, M. Tognon, and J. S. Butel (2014). Neutralizing and IgG Antibodies against Simian Virus 40 in Healthy Pregnant Women in Italy. *PloS one*, 9(10), e110700.
- E. Mazzoni, S. Pietrobon, I. Masini, J. C. Rotondo, M. Gentile, E. Fainardi, I. Casetta, M. Castellazzi, E. Granieri, M. L. Caniati, M. R. Tola, G. Guerra, F. Martini, and M. Tognon (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, C. Kochleus, D. Teschner, D. Rascher, A. K. Barton, A. Geerlof, E. Kremmer, M. Schmidt, A. Hartmann, and H. Gehlen (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, J. P. Jin, A. Linke, K. J. Walgenbach, P. Rauch, A. Zellmer, R. Fimmers, W. Kuhn, G. Hartmann, and G. Walgenbach-Brünagel (2014). Calponin-h2: a potential serum marker for the early detection of human breast cancer? *Tumor Biology*, 1-7.
- S. Haag, N. Schneider, D. E. Mason, J. Tuncel, I. E. Andersson, E. C. Peters, H. Burkhardt, and R. Holmdahl (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. Mazzoni, M. Gerosa, F. Lupidi, A. Corallini, A. P. Taronna, A. D'Agostino, A., M. Bovenzi, G. Ruggeri, F. Casali, J. C. Rotondo, G. Rezza, G. Barbanti-Brodano, M. Tognon and F. Martini (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, B. Vidal, C. Brown, C. Notley, C. Hegadorn, S. Webster, L. Harpell, J. Ahlin, A. Winterborn, J. Handforth, V. R. Arruda, C. Hough and D. Lillcrap, (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, T. Szuwart, J. Kleinheinz, C. Koiky, and K. Wermker, (2014). In vitro inhibition of HUVECs by low dose methotrexate-insights into oral adverse events. *Head & Face Medicine*, 10(1), 19.
- C. McAndrew, C. Heger, A. Saab, W. M. Dickerson, and P. K. Goldsmith (2013). Development of Applications of Acoustic Membrane MicroParticle Assay Technology for Translational Medicine. *AACR 104th Annual Meeting 2013*; Apr 6-10, 2013; Washington, DC DOI: 10.1158/1538-7445.AM2013-3208
- M. C. Holland, J. U. Wurthner, P. J. Morley, M. A. Birchler, J. Lambert, M. Albaty, P. Serone, R. Wilson, Y. Chen, R. M Forreest, J. C. Cor-

- dy, D. A. Lipson, and A. I. Bayliffe (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- α receptor 1. *Journal of clinical immunology*, 33(7), 1192-1203.
- D. R. Mhatre, S. D. Mahale, M. I. Khatkhatay, S. S. Desai, D. D. Jagtap, J. V. Dhabalia, H. B. Tongaonkar, M. P. Desai, S. P. Dandekar, and A. M. Varadkar, (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, N. Baur, H. Becker, G. Link, D. Maier, N. Schneiderhan-Marra, and M. Stelzle (2014). Moving the solid phase: a platform technology for cartridge based sandwich immunoassays. *Biomedical microdevices*, 16(1), 163-172.
- A. Lathuilière, B. Bohrmann, E. Kopetzki, C. Schweitzer, H. Jacobsen, M. Moniatte, P. Aebischer, and B. L. Schneider (2014). Genetic engineering of cell lines using lentiviral vectors to achieve antibody secretion following encapsulated implantation. *Biomaterials*, 35(2), 792-802.
- D. Rascher, A. Geerlof, E. Kremmer, P. Krämer, S. Michael, A. Hartmann, and M. Rieger (2014). Total internal reflection (TIRF)-based quantification of procalcitonin for sepsis diagnosis—A point-of-care testing application. *Biosensors and Bioelectronics* 59; 251-258.
- S. Haag, N. Schneider, D. E. Mason, J. Tuncel, I. E. Andersson, E. C. Peters, H. Burkhardt, and R. Holmdahl (2014). Mass spectrometric analysis of citrullinated type II collagen reveals new citrulline-specific autoantibodies, which bind to human arthritic cartilage. *Arthritis & Rheumatology*.
- P. Otto, V. Chaignat, D. Klimpel, R. Diller, F. Melzer, W. Müller, and H. Tomaso (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, P. Roth, M. Silginer, A. M. Florea, K. Lamszus, K. Frei, R. Deenen, G. Reifenberger and M. Weller (2014). Interferon- β induces loss of spherogenicity and overcomes therapy resistance of glioblastoma stem cells. *Molecular cancer therapeutics*, molcanther-0772.
- S. S. Moriya, K. Hiramatsu, E. Kimura, K. Matsumoto, and M. Kawakita, M. (2014). Construction of an Immunochromatographic Determination System for N1, N12-diacetylspermine. *J. Clin. Lab. Anal.* doi: 10.1002/jcla.21709
- C. Giesen, H. A. Wang, D. Schapiro, N. Zivanovic, A. Jacobs, B. Hattendorf, P. J. Schüffler, D. Grolimund, J. M. Buhmann, S. Brandt, Z. Varga, P. J. Wild, D. Günther, and B. Bodenmiller (2014). Highly multiplexed imaging of tumor tissues with subcellular resolution by mass cytometry. *Nature methods* 11, 417–422
- M. Angelo, S. C. Bendall, R. Finck, M. B. Hale, C. Hitzman, A. D. Borowsky, R. M. Levenson, J. B. Lowe, S. D. Liu, S. Zhao, Y. Natkunam and G.P. Nolan (2014). Multiplexed ion beam imaging of human breast tumors. *Nature medicine*. doi:10.1038/nm.3488
- M. F. García-Mayoral, M. A. Treviño, T. Pérez-Piñar, M. L. Caballero, T. Knaute, A. Umpierrez, M. Bruix, and R. Rodríguez-Pérez (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, N. Novak, and G. Erhardt, G. (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, L. Li, G. Walkinshaw, L. A. Flippin, H. H. Marti, and R. Kunze (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, E. A. Kelly, M. W. Johansson, L. Y. Liu, S. T. Han, M. Akhtar, N. Sandbo, D. F. Mosher, L. C. Denlinger, S. K. Mathur, J. S. Malter, and N. N. Jarjour (2014). Semaphorin 7A is expressed on airway eosinophils and upregulated by IL-5 family cytokines. *Clinical Immunology*, 150(1), 90-100.
- M. Kemmler, U. Sauer, E. Schleicher, C. Preininger, and A. Brandenburg, (2014). Biochip point-of-care device for sepsis diagnostics. *Sensors and Actuators B: Chemical*, 192, 205-215.
- S. Oster, K. Radad, D. Scheller, M. Hesse, W. Balanzew, H. Reichmann, G. Gille (2014). Rotigotine protects against glutamate toxicity

ty in primary dopaminergic cell culture. *European Journal of Pharmacology*, 724, 31-42.

J. Christopher-Hennings, K. P. C. Araujo, C. J. H. Souza, Yi. Fang, S. Lawson, E. A. Nelson, T. Clement, M. Dunn, and J. K. Lunney (2013). Opportunities for bead-based multiplex assays in veterinary diagnostic laboratories. *J Vet Diagn Invest.* 25(6):671-91.

N. Schreiber, M. Ströbele, J. Kopf, R. Hochscheid, E. Kotte, P. Weber, T. Hansen, H. Bockhorn, and B. Müller (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, S. Bertholet, J. Archer, D. G. Gibson, G. Palladino, L. A. Brito, G. R. Otten, M. Brazzoli, S. Buccato, A. Bonci, D. Casini, D. Macione, Z.-Q. Qi, J. E. Gill, N. C. Caiazza, J. Urano, B. Hubby, G. F. Gao, Y. Shu, E. De Gregorio, C. W. Mandl, P. W. Mason, E. C. Settembre, J. B. Ulmer, J. C. Venter, P. R. Dormitzer, R. Rappuoli and A. J. Geall (2013). Rapidly produced SAM[®] vaccine against H7N9 influenza is immunogenic in mice. *Emerging Microbes & Infections*, 2(8), e52.

E. Gulbins, M. Palmada, M. Reichel, A. Lüth, C. Böhmer, D. Amato, C. P. Müller, C. H. Tischbirek, T. W. Groemer, G. Tabatabai, K. A. Becker, P. Tripal, S. Staedtler, T. F. Ackermann, J. van Brederode, C. Alzheimer, M. Weller, U. E. Lang, B. Kleuser, H. Grassmé, and J. Kornhuber (2013). Acid sphingomyelinase-ceramide system mediates effects of antidepressant drugs. *Nature Medicine* 19, 934–938

U. Hampel, S. Sesselmann, P. Iserovich, S. Sel, F. Paulsen, and R. Sack (2013). Chemokine and cytokine levels in osteoarthritis and rheumatoid arthritis synovial fluid. *J Immunol Methods*, 396(1-2), 134-39.

S. Ferrari, V. Schitt, H. Rottensteiner, and F. Scheiflinger (2013). Low Incidence of Anti-CD36 Antibodies in Acquired Thrombotic Thrombocytopenic Purpura. *J Blood Disorders Transf* 4:146.

H. Planatscher, S. Rimmele, G. Michel, O. Pötz, T. Joos, and N. Schneiderhan-Marra (2013). Systematic reference sample generation for multiplexed serological assays. *Scientific Reports*, 3, 3259.

C. Desmet L. J. Blum, and C. A. Marquette (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, A. Haggmark, M. Khademi, T. Olsson, M. Uhlen, J. M. Schwenk, and P. Nilsson (2013). Autoantibody profiling in multiple sclerosis using arrays of human protein fragments. *Mol Cell Proteomics*. 12(9):2657-72.

S. Cattepoel, A. Schaub, M. Ender, A. Gaida, A. Kropf, U. Guggisberg, M. W. Nolte, L. Fabri, P. A. Adlard, D. I. Finkelstein, R. Bolli, and S. M. Miescher (2013). Intravenous Immunglobulin Binds Beta Amyloid and Modifies Its Aggregation, Neurotoxicity and Microglial Phagocytosis. *In Vitro. PLoS ONE* 8(5): e63162. doi:10.1371/journal.pone.0063162

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.

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: . *Methods in Molecular Biology*. Humana Press

A. Taronna, E. Mazzoni, A. Corallini, I. Bononi, S. Pietrobon, G. Guerra, C. Palmonari, C. Borgna-Pignatti, M. Comar, M. Bovenzi, F. Casali, R. Marci, G. Rezza, G. Barbanti-Brodano, M. Tognon and F. Martini (2013). Serological Evidence of an Early Seroconversion to Simian Virus 40 in Healthy Children and Adolescents. *PLoS ONE* 8(4):e61182. doi:10.1371/ journal. pone.0061182.

S. Tang, R. Lucius, H. Wenck, S. Gallinat, and J. M. Weise (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, A. Battermann, O. Hiller, O. Meyer, C. Figueiredo, A. Salama, and R. Blasczyk (2013). Development of a single-antigen magnetic bead assay (SAMBA) for the sensitive detection of HPA-1a alloantibodies using tag-engineered recombinant soluble β_3 integrin. *J Immunol Methods*, 391(1-2), 72-80.

M. R. Kaufmann, P. Schraml, T. Hermanns, R. H. Wenger, and G. Camenisch (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, M. Sattler, J. M. Weise, H. Wenck, S. Gallinat, and F. Fischer (2013). A tissue-engineered human dermal construct utili-

zing fibroblasts and transforming growth factor β_1 to promote elastogenesis. *Biotechnology Journal*, 8(3), 317-326.

S. Abdellaoui, B. C. Corgier, C. A. Mandon, B. Doumèche, C. A. Marquette, and L. J. Blum (2013). Biomolecules Immobilization Using the Aryl Diazonium Electrografting. *Electroanalysis*, 25(3), 671-684.

M. K. Gavala, E. A. Kelly, S. Esnault, S. Kukreja, M. D. Evans, P. J. Bertics, G. L. Chupp, and N. N. Jarjour (2013). Segmental allergen challenge enhances chitinase activity and levels of CCL18 in mild atopic asthma. *Clinical & Experimental Allergy*, 43(2), 187-197.

K. Kaendler, A. Warren, P. Lloyd, J. Sims, and D. Sickert (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, T. Ruckstuhl, and S. Seeger (2013). Fast and Sensitive Interferon- γ Assay Using Supercritical Angle Fluorescence. *Biosensors*, 3(1), 108-115.

C. A. Mandon, O. I. Berthuy, B. P. Corgier, G. C. Le Goff, P. Faure, P. N. Marche, L. J. Blum, and C. A. Marquette (2013). Polymer adhesive surface as flexible generic platform for multiplexed assays biochip production. *Biosens Bioelectron* 15;39(1):37-43.

C. Desmet, L. J. Blum, and C. A. Marquette (2012). High-throughput multiplexed competitive immunoassay for pollutants sensing in water. *Anal Chem* 84(23):10267-76.

H. Venderstichele, E. Stoops, E. Vanmechelen, and A. Jeromin (2012). Potential sources of interference on Abeta immunoassays in biological samples. *Alzheimer's Research & Therapy*, 4:39.

B. Bodenmiller, E. R. Zunder, R. Finck, T. J. Chen, E. S. Savig, R.V. Bruggner, E. F. Simonds, S.C. Bendall, K. Sachs, P. O. Krutzik, and G. P. Nolan (2012). Multiplexed mass cytometry profiling of cellular states perturbed by small-molecule regulators. *Nat Biotechnol*. 30(9):858-67.

E. Mazzoni, A. Corallini, A. Cristaudo, A. Taronna, G. Tassi, M. Manfrini, M. Comar, M. Bovenzi, R. Guaschino, F. Vaniglia, C. Magnani, F. Casali, G. Rezza, G. Barbanti-Brodano, F. Martini, and M. G. Tognona (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, S. Beckert, T. O. Joos, A. Königsrainer, N. Schneiderhan-Marra, and M. W. Löffler (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, N. Schneiderhan-Marra, N. Baur, K. Hefner, M. Blum, G. M. Stein, T. O. Joos, and M. Schmolz (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, B. Lüttenberg and H.P. Wiesmann (2012). Investigation of biomaterials by human epithelial gingiva cells: an in vitro study, *Head & Face Medicine*, 8:35 doi:10.1186/1746-160X-8-35.

K. Stubenrauch, U. Wessels, U. Essig, F. Kowalewsky, R. Vogel, and Heinrich J. (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, J. Kleinheinz, T. Szuwart, U. Joos, and K. Wermker (2012). Short time administration of antirheumatic drugs - Methotrexate as a strong inhibitor of osteoblast s proliferation in vitro. *Head Face Med* 8(1):26.

M. Schmohl, S. Beckert, T.O. Joos, A. Königsrainer, N. Schneiderhan-Marra, and M. W. Löffler (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, S. Haag, S. Carlsén, A.C. Yau, S. Lu, H. Burkhardt, R. Holmdahl (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, D. Bausch-Fluck, C. R. Thoma, A. M. Nowicka, D. P. Stiehl, I. Cima, V.-D. Luu, A. von Teichman, T. Hermanns, T. Sulser, B. Ingold-Heppner, N. Fankhauser, R. H. Wenger, W. Krek, P. Schraml, B. Wollscheid, and H. Moch (2012). Identification and Functio-

nal Characterization of pVHL-Dependent Cell Surface Proteins in Renal Cell Carcinoma. *Neoplasia* 14(6): 535–546.

K. Miessen, R. Einspanier, and J. Schoen (2012). Establishment and characterization of a differentiated epithelial cell culture model derived from the porcine cervix uteri. *BMC Veterinary Research* 8:31.

M. Ziegler, M. Elvers, Y. Baumer, C. Leder, C. Ochmann, T. Schönberger, T. Jürgens, T. Geisler, B. Schlosshauer, O. Lunov, S. Engelhardt, T. Simmet, and M. Gawaz (2012). The bispecific SDF1-GPVI fusion protein preserves myocardial function after transient ischemia in mice. *Circulation* 125(5):685-96.

T. Rülker, L. Voß, P. Thullier, L.M. O' Brien, T. Pelat, S. D. Perkins, C. Langermann, T. Schirrmann, S. Dübel, H. J. Marschall, M. Hust and B. Hülseweh (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, S. C. Bendall, M. R. Clutter, W. J. Fantl, and G. P. Nolan (2012). Single-cell mass cytometry adapted to measurements of the cell cycle. *Cytometry Part A* 81(7):552–66.

M. Kehrel, N. Dassinger, S. Merkl, D. Vornicescu, and M. Keusgen (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, C.-Y. Kwak, J. A. Shayman, and J. H. Kim (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, B. P. Corgier, A. Mandon, G. De Crozals, C. Chaix, L. J. Blum, and C. A. Marquette (2012). Impact of immobilization support on colorimetric microarrays performances. *Bioelectronics* 35(1): 94-100.

A. Corallini, E. Mazzoni, A. Taronna, M. Manfrini, G. Carandina, G. Guerra, R. Guaschino, F. Vaniglia, C. Magnani, F. Casali, R. Dolcetti, C. Palmonari, G. Rezza, F. Martini, G. Barbanti-Brodano, and M. G. Tognon (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, H.-J. Lu, S.-S. Liou, C. J. Chang, and I.-M. Liu (2012). Vinegar-Baked Radix Bupleuri Regulates Lipid Disorders via a Pathway Dependent on Peroxisome-Proliferator-Activated Receptor- α in High-Fat-Diet-Induced Obese Rats. *Evid Based Complement Alternat Med.* 2012:827278.

J. O. Baek, J. W. Seo, O. Kwon, C. H. Kim, and I. H. Kim (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, T.-F. Tzeng, S.-S. Liou, Y.-S. Chang, and I.-M. Liu (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, B. Hülseweh, G. Grote, L. Voß, K. Böhlting, and H.-J. Marschall (2011). Microbial Inactivation for Safe and Rapid Diagnostics of Infectious Samples. *Appl. Environ. Microbiol.* 77:7289-7295.

C. J. Chang, T.-F. Tzeng, S.-S. Liou, Y.-S. Chang, and I.-M. Liu (2011). Kaempferol regulates the lipid-profile in high-fat diet-fed rats through an increase in hepatic PPAR α levels. *Planta Med* 77:1876-1882.

J.-L. Sagripanti, H.-J. Marschall, L. Voss, and B. Hülseweh (2011). Photochemical Inactivation of Alpha- and Poxviruses. *Photochemistry and Photobiology*, 87:1369–1378.

T. Ruckstuhl, C. M. Winterflood, and S. Stefan Seeger (2011). Supercritical Angle Fluorescence Immunoassay Platform. *Anal Chem* 83(6):2345-50.

F. Ronzoni, M. Bongio, S. Conte, L. Vercesi, M. Cassano, C. Tribioli, D. Galli, R. Bellazzi, G. Magenes, M. G. C. De Angelis, and M. Sampaolesi (2011). Localization of Magic-F1 Transgene, Involved in Muscular Hypertrophy, during Early Myogenesis. *J Biomed Biotechnol* 2011:492075.

A. C. Kotto-Kome, C. Silva, V. Whiteman, X. Kong, and M. E. Fant (2011). Circulating Anti-PLAC1 antibodies during pregnancy and in women with reproductive failure: a preliminary analysis. *ISRN Immunology*, Article ID 530491, doi:10.5402/2011/530491.

S. Y. Park, S. H. Lee, N. Kawasaki, S. Itoh, K. Kang, S. Ryu, N. Hashii, J. M. Kim, J. Y. Kim, and J. Hoe Kim, (2011). α 1-3/4 fucosylation at

- Asn 241 of β -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, P. Kowalewski, and C. Ziegler, (2011). Lithographically structured biological recognition structures for immunosensing and single cell analytics. *Physica status solidi (a)*, 208:1275–78.
- C. Desmet, G. C. Le Goff, J. C. Brès, D. Rigal, L. J. Blum, and C. A. Marquette (2011). Multiplexed immunoassay for the rapid detection of anti-tumor-associated antigens antibodies. *Analyst* 136, 2918-24.
- I. Khan, L.H. Wieler, F. Melzer, M. Gwida, V.L. Santana, M. M. de Souza, M. Saqib, M. C. Elschner, and H. Neubauer (2011). Comparative evaluation of three commercially available complement fixation test antigens for the diagnosis of glanders. *Vet Rec* 169(19):495.
- B. P. Corgier, C. A. Mandon, G. C. Le Goff, L. J. Blum, and C. A. Marquette (2011). Adhesive microarrays for multipurpose diagnostic tools. *Lab Chip*. 11(17):3006-10.
- S. C. Bendall, E. F. Simonds, P. Qiu, E. D. Amir, P. O. Krutzik, R. Finck, R. V. Bruggner, R. Melamed, A. Trejo, O. I. Ornatsky, R. S. Balderas, S. K. Plevritis, K. Sachs, D. Pe'er, S. D. Tanner, and G. P. Nolan (2011). Single-Cell Mass Cytometry of Differential Immune and Drug Responses Across a Human Hematopoietic Continuum. *Science* 332 (6030):687-96.
- S. Wang, F. Cesca, G. Loers, M. Schweizer, F. Buck, F. Benfenati, M. Schachner, and R. Kleene (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, M. Eichler, L. Müller, D. Bünger, J. Groll, G. Ziemer, F. Rupp, H. Northoff, J. Geis-Gerstorfer, F. K. Gehring, and H. P. Wendel (2011). NCO-sP(EO-stat-PO) Coatings on Gold Sensors - a QCM Study of Hemocompatibility. *Sensors* 11, 5253-69.
- I. Cima, R. Schiess, P. Wild, M. Kaelin, P. Schüffler, V. Lange, P. Picotti, R. Ossola, A. Templeton, O. Schubert, T. Fuchs, T. Leippold, S. Wyler, J. Zehetner, W. Jochum, J. Buhmann, T. Cerny, H. Moch, S. Gillissen, R. Aebersold, and W. Kreka (2011). Cancer genetics-guided discovery of serum biomarker signatures for diagnosis and prognosis of prostate cancer. *PNAS* 108 (8): 3342-47.
- M. C. Elschner, H. C. Scholz, F. Melzer, M. Saqib, P. Marten, A. Rassbach, M. Dietsch, G. Schmooch, V.L. de Assis Santana, M. M. A. de Souza, R. Wernery, U. Wernery, and H. Neubauer (2011). Use of a western blot technique for the serodiagnosis of glanders. *BMC Veterinary Research* 2011, 7:4.
- T. Kuczius, L. Brandstädter, H. Karch, and J. P. M. Langeveld (2011). A duplex approach for immunochemical staining and typing of proteins in western blots. *Analytical Biochemistry* 409(2):260-66.
- P. Favaro, J. D. Finn, J. I. Siner, J. Fraser Wright, K. A. High, and V. R. Arruda (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, L. Müller, H. Drechsel, M. Wandel, H. Northoff, G. Ziemer, H. P. Wendel, and F. K. Gehring (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, M. Keß, E. Kremmer, S. Schulte-Hostede (2010). Multi-Parameter Determination of TNF α , PCT and CRP for Point-of-Care Testing. *Analyst* 136, 692-95.
- T. Kuczius, O. Böhrer, and H. Karch, (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, C. König, S. Ulm, R. Marone, L. Röpke, J. P. Müller, M. Grün, R. Bauer, I. Rubio, M. P. Wymann, A. Voigt, and R. Wetzker (2010). Targeting PI3K in neuroblastoma. *J Cancer Res Clin Oncol* 136:1881-90.
- S. Kunnath-Velayudhana, H. Salamon, H.-Y. Wang, A.L. Davidow, D. M. Molina, V. T. Huynh, D. M. Cirillo, G. Michel, E. A. Talbot, M. D. Perkins, P. L. Felgner, X. Liang, and M. L. Gennaro (2010). Dynamic antibody responses to the Mycobacterium tuberculosis proteome. *PNAS* 107(33):14703-08.
- V. Haurigot, F. Mingozzi, G. Buchlis, D.J. Hui, Y. Chen, E. Basner-Tschakarjan, V. R. Arruda, A. Radu, H. G. Franck, J. F. Wright, S. Zhou, H. H. Stedman, D. A. Bellinger, T. C. Nichols, and K. A. High (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, C. M. Weber, S. Forster, P. Rauch, and E. Kremmer (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, A. Jacob, S. Tonack, T. P. Radon, M. Sill, M. Zucknick, S. Rüffer, E. Costello, J. P. Neoptolemos, T. Crnogorac-Jurcevic, A. Bauer, K. Fellenberg, and J. D. Hoheisel (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, A. Jacob, S. Rüffer, K. Fellenberg, and J. D. Hoheisel (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, N. Lachmann, J. Schulze, M. Geisler, K. Selbach, J. Santamaria-Araujo, J. Balk, R. R. Mendel, and F. Bittner (2010). A Novel Role for Arabidopsis Mitochondrial ABC Transporter ATM3 in Molybdenum Cofactor Biosynthesis. *Plant Cell* 22(2):468-80.

K. Stubenrauch, U. Wessels, U. Essig, R. Vogel, and J. Schleypen (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, U. Wessels, J.T. Regula, H. Kettenberger, J. Schleypen, and U. Kohnert (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, B. J. Biggerstaff, O. L. Kosoy, S. R. Junna, N. A. Panella, A. M. Powers, L. M. Stark, and N. M. Nemeth (2010). Removal of species constraints in antibody detection. *Clin Vaccine Immunol* 17(1):56-61.

F. Grueninger, B. Bohrmann, C. Czech, T. M. Ballard, J. R. Frey, C. Weidensteiner, M. von Kienlin, and L. Ozmen (2009). Phosphorylation of Tau at S422 is enhanced by A β in TauPS2APP triple transgenic mice. *Neurobiol Dis* 37(2):294-306.

J. Schön, S. Neumann, D. Wildt, B. Pukazhenth, and K. Jewgenow (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, C. F. Freguia, R. Toso, A. Santos, E. P. Merricks, H. H. Kazazian, Jr, T. C. Nichols, R. M. Camire and V. R. Arruda (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, L. Bolzoni, A. Giannetti, G. Porro, F. Senesi, and C. Trono (2009). Point of care optical device for sepsis diagnosis. *Proc SPIE* (7503):75037.

F. Baldini, L. Bolzoni, A. Giannetti, M. Kess, P. M. Krämer, E. Kremmer, G. Porro, F. Senesi, and C. Trono (2009). A sandwich assay for procalcitonin detection in POCT applications. *Proc. SPIE* (7169):716905.

F. Baldini, L. Bolzoni, A. Giannetti, G. Porro, F. Senesi, and C. Trono, (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.

I. Fischer, S. Schulze, C. Kuhn, K. Friese, H. Walzel, U. R. Markert and U. Jeschke (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, S. Reckinger, A. Broglia, A. Mayer-Scholl and P. Bahn (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, A. Carloni, A. Giannetti, G. Porro, and C. Trono (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, U. Sauer, J. Pultar and C. Preininger (2009). Protein microarray for the analysis of human melanoma biomarkers, *Sensors and Actuators B: Chemical* 139(1):2-8.

- C. A. Marquette, L. J. and Blum (2009). Chemiluminescent enzyme immunoassays: a review of bioanalytical applications. *Bioanalysis*, 1(7), 1259-1269.
- C. A. Marquette, F. Bouteille, B. P. Corgier, A. Degiuli and L. J. Blum (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, M. Chomova, Z. Tatarkova, P. Kaplan, J. Hatok and D. Dobrota (2009). Ischemia-induced mitochondrial apoptosis is significantly attenuated by ischemic preconditioning. *Cell Mol Neurobiol* 29(6-7):901-08.
- F. Baldini, L. Bolzoni, A. Giannetti, M. Kess, P. M. Krämer, E. Kremmer, G. Porro, F. Senesi and C. Trono (2008). A new procalcitonin optical immunosensor for POCT applications. *Anal Bioanal Chem* 393(4):1183-90.
- P. Krämer, M.-F. Gouzy, M. Keß, U. Kleinschmidt and E. Kremmer (2008). Development and characterization of new rat monoclonal antibodies for procalcitonin. *Anal Bioanal Chem* 392(4):727-36.
- C. Lehmann, H. Wolf, J. Xu, Q. Zhao, Y. Shao, M. Motz and P. Lindner (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, R. Klocke, M. Kuhlmann, W. Tian, L. Hasib, H. Milting, S. Koenig, M. Stelljes, A. El-Banayosy, G. Tenderich, G. Michel, G. Breithardt and S. Nikol (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, S. Forster, and E. Kremmer (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, C. von Eiff, T. Kuczius, K. Omoe, G. Peters and K. Becker (2007). A quantitative real-time immuno-PCR approach for detection of staphylococcal enterotoxins. *J Mol Med* 85:461-69.
- J. Barraclough, C. Hodgkinson, A. Hogg, C. Dive and A. Welman (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, M. Hamdorf, U. Held, M. Perkovic, J. Löwer, K. Cichutek, E. Flory, G. G. Schumann and C. Münk (2006). APOBEC3 proteins inhibit human LINE-1 retrotransposition. *J Biol Chem.* 281(31):22161-72.