

## List of publications

2020

### **HLA-DR15 Molecules Jointly Shape an Autoreactive T Cell Repertoire in Multiple Sclerosis**

Jian Wang, Ivan Jelcic, Lena Muhlenbruch, Mireia Sospedra, Stefan Stevanovic, Roland Martin  
<https://doi.org/10.1016/j.cell.2020.09.054>

### **Adeno-associated virus-vectored influenza vaccine elicits neutralizing and Fcc receptor-activating antibodies**

Demminger D. E., Walz L., Dietert K., Hoffmann H., Planz O., Gruber A. D., von Messling V., Wolff T.  
*EMBO Mol. Med.* 2020; e10938

### **Altered hematopoietic system and self-tolerance in Bardet-Biedl Syndrome**

Tsyklauri O., Niederlova V., Forsythe E., Drobek A., Prasai A., Sparks K., Trachtulec Z., Beales P., Huranova M., Stepanek O.  
*XXX.* 2020; **x**: xxxx

### **Detection of EXP1-Specific CD4+ T Cell Responses Directed Against a Broad Range of Epitopes Including Two Promiscuous MHC Class II Binders During Acute Plasmodium falciparum Malaria**

Heide J., Wildner N. H., Ackermann C., Wittner M., Marget M., Sette A., Sidney J., Jacobs T., Schulze Zur Wiesch J.  
*Frontiers Immunol.* 2020; **10**: 3037

### **Dynamic adoption of anergy by antigen-exhausted CD4+ T cells**

Trefzer A., Kadam P., Wang S. H., Pennavaria S., Lober B., Kranich J., Brocker T., Irmeler M., Beckers J., Sraub T., Obst R.  
*SSRN Elect. J.* 2020; **x**: x

### **Dynamics of the Coreceptor-LCK Interactions during T Cell Development Shape the Self-Reactivity of Peripheral CD4 and CD8 T Cells**

Horkova V., Drobek A., Mueller D., Gubser C., Niederlova V., Wyss L., King C. G., Zehn D., Stepanek O.  
*Cell Rep.* 2020; **30** (5): 1504

### **Different vinculin binding sites use the same mechanism to regulate directional force transduction**

Kluger C., Braun L., Sedlak S. M., Pippig D. A., Bauer M. S., Miller K., Milles L. F., Gaub H. E., Voge V.  
*Biophysical J.* 2020; **118**

### **Fcγ Receptor IIB Controls Skin Inflammation in an Active Model of Epidermolysis Bullosa Acquisita**

Kovacs B., Tillmann J., Freund L.-C., Nimmerjahn F., Sadik C. D., Bieber K., Ludwig R. J., Karsten C. M., Köhl J.  
*Frontiers Immunol.* 2020; **10**: 3012

### **Hepatitis B virus particles activate toll-like receptor 2 signaling initial upon infection of primary human hepatocytes**

Zhang Z., Trippler M., real C. I., Werner M., Luo X., Schefczyk S., Kemper T., Anastasiou O. E., Ladiges Y., Treckmann J., Paul A., Baba H. A., Allweiss L., Dandri M., Gerken G., Wedemeyer H., Schlaak J. F., Lu M., Broering R.  
*Hepatology* 2020 (to be published)

**In vivo vaccination effect in multiple myeloma patients treated with the monoclonal antibody isatuximab**

Atanackovic D., Yousef S., Shorter C., Tantravahi S. K., Steinbach M., Iglesias F., Sborov D., Radhakrishnan S. V., Chiron M., Miles R., Salama M., Kröger N., Luetkens T.  
*Leukemia* 2020; 34 (1): 317

**Intact Transition Epitope Mapping - Thermodynamic Weak-force Order (ITEM - TWO)**

Danquah B. D., Yefremova Y., Opuni K. F. M., Röwer C., Koy C., Glocker M. O.  
*J. Proteomics* 2019; 212: 103572

**Irisin: still chasing shadows**

Albrecht E., Schering L., Buck F., Vlach K., Schober H.- C., Drevron C. A., Maak S.  
*Mol. Metab.* 2020; 34: 124

**TNF- $\alpha$  antagonist differentially induce TGF- $\beta$ 1-dependent resuscitation of dormant-like Mycobacterium tuberculosis**

Arbue's A., Brees D., Chibout S.- D., Fox T., Kammüller M., Portevin D.  
*PLoS Pathog.* 2020; 16 (2): e1008312

**2019**

**Brain citrullination patterns and T cell reactivity of cerebrospinal fluid-derived CD4+ T cells in multiple sclerosis**

Faigle W., Cruciani C., Wolski W., Roschitzki B., Puthenparampil M., Tomas-Ojer P., Sellés-Moreno C., Zeis T., Jelcic I., Schaeren-Wiemers N., Sospedra M., Martin R.  
*Frontiers Immunol.* 2019; 10: 540

**Clinical outcome and viral genome variability of hepatitis B virus-induced acute liver failure.**

FAnastasiou O. E., Widera M., Westhaus S., Timmer L., Korth J., Gerken G., Canbay A., Todt D., Steinmann E., Schwarz T., Timm J., Verheyen J., Ciesek S.  
*Hepatology.* 2019; 69 (3): 993

**CMKLR1-targeting peptide tracers for PET/MR imaging of breast cancer**

Erdmann S., Niederstadt L., Koziolok E. J., Castillo Gómez J. D., Prasad S., Wagener A., Lennart von Hacht J., Hallmann S., Exner S., Bandholtz S., Beindorff N., Brenner W.  
*Theranost.* 2019; 9 (22): 6719

**Efficient screening of combinatorial peptide libraries by spatially ordered beads immobilized on conventional glass slides.**

Schwaar T., Lettow M., Remmler D., Börner H. G., Weller M. G.  
*High Throughput* 2019; **8** (2)

**Exon inclusion modulates conformational plasticity and autoinhibition of the intersectin 1 SH3A domain**

Gerth F., Jäpel M., Sticht J., Kuropka B., Schmitt X. J., Driller J. H., Loll B., Wahl M. C., Pagel K., Haucke V., Freund C.  
*Struct.* 2019; **27**: 1

**FLEXamers: a double tag for universal generation of versatile peptide-MHC multimers**

Effenberger M., Stengl A., Schober K., Gerget M., Kampick M., Müller T. R., Schumacher D. Helma J.  
*J. Immunol.* 2019; **202** (7): 2164

**Healthy Donors Exhibit a CD4 T Cell Repertoire Specific to the Immunogenic Human Hormone H2-Relaxin before Injection**

Azam A., Gallais Y., Mallart S., Illiano S., Duclos O., Prades C., Maillère B.  
*J. Immunol.* 2019; **202**(12): 3507

**In vivo vaccination effect in multiple myeloma patients treated with the monoclonal antibody isatuximab**

Atanackovic D., Yousef S., Shorter C., Tantravahi S. K., Steinbach M., Iglesias F., Sborov D., Radhakrishnan S. V., Chiron M., Miles R., Salama M., Kröger N., Luetkens T.  
*Leukemia* 2019.

**Increasing molar activity by HPLC purification improves <sup>68</sup>Ga-DOTA-NAPamide tumor accumulation in a B16/F1 melanoma xenograft model**

Lennart von Hacht J., Erdmann S., Niederstadt L., Prasad S., Wagener A., Exner S., Beindorff N., Brenner W., Grötzinger C.  
*PLOS ONE* 2019; **14**: 1

**Induction of herpes simplex virus type 1 cell-to-cell spread inhibiting antibodies by a calcium phosphate nanoparticle-based vaccine**

Kopp M., Aufderhorst U. W., Alt M., Dittmer U., Eis-Hübinger A.-M., Giebel B., Roggendorf M., Epple M., Krawczyk A.  
*Nanomed.* 2019; **16**: 138

**Intact transition epitope mapping-targeted high-energy rupture of extracted epitopes (ITEM-THREE)**

Danquah B. D., Röwer C., Opuni K. F. M., El-Kased R., Frommholz D., Illges H., Koy C., Glocker M. O.  
*Mol Cell Proteom.* 2019; **18** (8): 1543

**Interference with Amyloid- $\beta$  Nucleation by Transient Ligand Interaction**

Zhang T., Loschwitz J., Strodel B., Nagel-Steger L., Willbold D.  
*Molecules* 2019; **24**:2129

**Memory T cells targeting oncogenic mutations detected in peripheral blood of epithelial cancer patients**

Cafri G., Yossef R., Pasetto A., Deniger D. C., Lu Y.-C., Parkhurst M., Gartner J. J., Jia L., Ray S., Ngo L. T., Jafferji M., Sachs A., Prickett T., Robbins P. F., Rosenberg S. A.  
*Nat. Commun.* 2019; **10**(1):449

**Metabolic Resistance of the D-peptide RD2 developed for direct elimination of amyloid- $\beta$  oligomers**

Elfgen A., Hupert M., Bochinsky K., Tusche M., González de San Román Martin E., Gering I., Sacchi S., Pollegioni L., Huesgen P. F., Hartmann R., Santiago-Schübel B., Kutzsche J., Willbold D.  
*Sci. Rep.* 2019; **9**: 5715

**Structural characterization of synthetic peptides using electrospray ion mobility spectrometry and molecular dynamics simulations**

Villatoro J., Weber M., Zühlke M., Lehmann A., Zenichowski K., Riebe D., Beitz T., Löhmannsröben H.-G., Kreuzer O.  
*Int. J. Mass Spectr.* 2019; **436**: 108

**Structural insights into curli CsgA cross- $\beta$  fibril architecture inspire repurposing of anti-amyloid compounds as anti-biofilm agents.**

Perov S., Lidor O., Salinas N., Golan N., Tayeb-Fligelman E., Deshmukh M., Willbold D., Landau M.  
*PLoS Pathog.* 2019; **15** (8): e1007978

**Synchronous delivery of hydroxyapatite and connective tissue growth factor derived osteoinductive peptide enhanced osteogenesis**

Xu R., Zhang Z., Toftda M. S., Møller A. C., Dagnaes-Hansend F., Dong M., Thomsen J. S., Brüel A., Chen M.  
*J. Controll. Releas.* 2019; **301**: 129

**Targeting the CALCB/RAMP1 axis inhibits growth of Ewing sarcoma**

Dallmayer M., Li J., Ohmura S., Alba Rubio R., Baldauf M. C., Hölting T. L. B., Musa J., Knott M. M. L., Stein S., Cidre-Aranaz F., Wehweck F. S., Romero-Pérez L., Gerke J. S., Orth M. F., Marchetto A., Kirchner T., Bach H., Sannino G., Grünewald T. G. P.  
*Cell Death and Disease* 2019; **10**:216

**Taste modulating peptides from overfermented cocoa beans**

Salger M., Stark T. D., Hofmann T.  
*J. Agric. Food Chem.* 2019; **67** (15):4311

**TCR Fingerprinting and Off-Target Peptide 1 Identification**

A. R. Karapetyan, C. Chaipan, K. Winkelbach, S. Wimberger, J. S. Jeong, B. Joshi, R. B. Stein, D. Underwood, J. C. Castle, M. van Dijk, V. Seibert  
*Front. Immunol.* 2019; **10**: 2501

**Transmaternal helicobacter pylori exposure reduces allergic airway inflammation in offspring through regulatory T cells**

Kyburz A., Fallegger A., Zhang X., Altobelli A., Artola-Boran M., Borbet T., Urban S., Paul P., Münz C., Floess S., Huehn J., Cover T.

L., Blaser M. J., Taube C., Müller A.  
*J. Allergy Clin. Immunol.* 2019; **143** (4):1496

## 2018

### **A novel synthetic peptide microarray assay detects Chlamydia species-specific antibodies in animal and human sera**

Sachse K., Rahman K. S., Schnee C., Müller E., Peisker M., Schumacher T., Schubert E., Ruettinger A., Kaltenboeck B., Ehrlich R.  
*Sci. Rep.* 2018; **8** : 4701

### **Autoantibodies in serum of systemic scleroderma patients: peptide-based epitope mapping indicates increased binding to cytoplasmic domains of CXCR3**

Recke A., Regensburger A.-K., Weigold F., Müller A., Heidecke H., Marschner G., Hammers C. M., Ludwig R., J., Riemekasten G.  
*Front. Immunol.* 2018; **9** : 428

### **Botulinum neurotoxin F Subtypes cleaving the VAMP-2 Q<sup>58</sup>-K<sup>59</sup> peptide bond exhibit unique catalytic properties and substrate specificities**

Sikorra S., Skiba M., Dorner M. B., Weisemann J., Weil M., Valdezate S., Davlevtov B., Rummel A., Dorner B. G., Binz T.  
*Toxins (Basel)* 2018; **10** (8) : 311

### **CMV and EBV targets recognized by tumor-infiltrating B lymphocytes in pancreatic cancer and brain tumors**

Meng Q., Valentini D., Rao M., Maeurer M.  
*Sci. Rep.* 2018; **8** (1) : 17079

### **Comparison of blood-brain barrier penetration efficiencies between linear and cyclic all-d-enantiomeric peptides developed for the treatment of Alzheimer's disease**

Schartmann E., Schemmert S., Ziehm T., Leithold L. H. E., Jiang N., Tusche M., Joni Shah N., Langen K. J., Kutzsche J., Willbold D., Willuweit A.  
*Eur. J. Pharm. Sci.* 2018; **114** : 93

### **Cytomegalovirus-specific CD8+ T-cells with different T-cell receptor affinities segregate T-cell phenotypes and correlate with chronic graft-versus-host disease in patients post-hematopoietic stem cell transplantation**

Poiret T., Axelsson-Robertson R., Remberger M., Luo X.-H., Rao M., Nagchowdhury A., Von Landenberg A., Ernberg I., Ringden O., Maeurer M.  
*Front. Immunol.* 2018; **9** : 760

### **Elongation/termination factor exchange mediated by PP1 phosphatase orchestrates transcription termination**

Kecman T., Kuś K., Heo D. H., Duckett K., Birot A., Liberatori S.,

Mohammed S., Geis-Asteggiante L., Robinson C. V., Vasiljeva L.  
*Cell Rep.* 2018; **25** (1) : 259

**GDP-I-fucose synthase is a CD4<sup>+</sup> T cell-specific autoantigen in DRB3\*02:02 patients with multiple sclerosis**

Siegemund M., Schneider F., Hutt M., Seifert O., Müller I., Kulms Planas R., Santos R., Tomas-Ojer P., Cruciani C., Lutterotti A., Faigle W., Schaeren-Wiemers N., Espejo C., Eixarch H., Pinilla C., Martin R., Sospedra M.  
*Sci. Transl. Med.* 2018; **10** (462): 1

**IgG-single-chain TRAIL fusion proteins for tumor therapy**

Siegemund M., Schneider F., Hutt M., Seifert O., Müller I., Kulms D., Pfizenmaier K., Kontermann R. E.  
*Sci. Rep.* 2018; **8**: 7808

**In vitro Potency and Preclinical Pharmacokinetic Comparison of All-D-Enantiomeric Peptides Developed for all the Treatment of Alzheimer's Disease**

Schartmann E., Schemmert S., Niemiets N., Honold D., Ziehm T., Tusche M., Elfgen A., Gering I., Brener O., Shah N. J., Langen K. J., Kutzsche J., Willbold D., Willuweit A.  
*J. Alzheimers Dis.* 2018; **64** (3): 859

**Investigations of the Copper Peptide Hepcidin-25 by LC-MS/MS and NMR**

Abbas I. M., Vranic M., Hoffmann H., El-Khatib A. H., Montes-Bayón M., Möller H. M., Weller M. G.  
*Int. J. Mol. Sci.* 2018; **19** (8): 2271

**Memory B Cells Activate Brain-Homing, Autoreactive CD4<sup>+</sup> T Cells in Multiple Sclerosis**

Jelcic I., Al Nimer, F., Wang J., Lentsch V., Planas R., Jelcic I., Madjovski A., Ruhrmann S., Faigle W., Frauenknecht K., Pinilla C., Santos R., Hammer C., Ortiz Y., Opitz L., Grönlund H., Rogler G., Boyman O., Reynolds R., Lutterotti A., Khademi M., Olsson T., Piehl F., Sospedra M., Martin R.  
*Cell* 2018; **175**(1):85

**NY-ESO-1- and surviving-specific T-cell responses in the peripheral blood from patients with glioma**

Liu Z., Poiret T., Persson O., Meng Q., Rane L., Bartek J. Jr, Karbach J., Altmannsberger H. M., Illies C., Luo X., Harvey-Peredo I., Jäger E., Dodoo E., Maeurer M.  
*Cancer Immunol. Immunother.* 2018; **67**(2):237

**Octreotide Does Not Inhibit Proliferation in Five Neuroendocrine Tumor Cell Lines**

Exner S., Prasad V., Wiedenmann B., Grötzinger C.  
*Front Endocrinol. (Lausanne)* 2018; **9**: 146

**Peptide-specific recognition of human cytomegalovirus strains controls adaptive natural killer cells**

Hammer Q., Rückert T., Borst E. M., Dunst J., Haubner A., Durek P.,

Heinrich F., Gasparoni G., Babic M., Tomic A., Pietra G., Nienen M., Blau I. W., Hofmann J., Na I.-K., Prinz I., Koenecke C., Hemmatill P., Babel N., Arnold R., Walter J., Thurley K., Mashreghi M.-F., Messerle M., Romagnani C.

*Nature Immunol.* 2018; **19**:453

**Predictable Peptide Conjugation Ratios by Activation of Proteins with Succinimidyl Iodoacetate (SIA)**

Abbas I. M., Schwaar T., Bienwald F., Weller M. G.

*Methods Protoc.* 2018; **1** (1): 2

**Phosphoproteomic screening identifies physiological substrates of the CDKL5 kinase**

Muñoz I. M., Morgan M. E., Peltier J., Weiland F., Gregorczyk M., Brown F. C. M., Macartney T., Toth R., Trost M., Rouse J.

*EMBO J.* 2018; **37** (24):e99559

**Prediction of improved survival in patients with pancreatic cancer via IL-21 enhanced detection of mesothelin epitope-reactive T-cell responses**

Meng Q., Valentini D., Rao M., Liu Z., Xie S., Morgell A., Dodoo E., Löhr M., Rangelova E., Del Chiaro M., Ernberg I., Maeurer M.

*Oncotarget* 2018; **9** (32): 22451

**Stable Frequencies of HLA-C\*03:04/Peptide-Binding KIR2DL2/3+ Natural Killer Cells Following Vaccination**

Ziegler M. C., Grañana F. B., Garcia-Beltran W. F., Schulze zur Wiesch J., Hoffmann C., Rechten A., Lunemann S., Altfeld M.

*Front. Immunol.* 2018; **9**: 2361

**Strong homeostatic TCR signals induce formation of self-tolerant virtual memory CD8 T cells**

Drobek A., Moudra A., Mueller D., Huranova M., Horkova V., Pribikova M., Ivanek R., Oberle S., Zehn D., McCoy K. D., Draber P., Stepanek O.

*EMBO J.* 2018; **37**(14):e98518

**Synthesis and Binding of a Novel PSMA-specific Conjugate**

Holmberg A. R., Marquez M., Lennartsson L., Meurling L., Nilsson S.

*Anticancer Res.* 2018; **38** (3): 1531

**Systematic identification of cancer-specific MHC-binding peptides with RAVEN**

Baldauf M. C., Gerke J. S., Kirschnerb A., Blaeschke F., Effenbergerd M., Schober K., Alba Rubio R., Kanasekie T., Kiran M. M., Dallmayera M., Musa J., Akpolat N., Akatli A. N., Rosman F. C., Özen Ö., Sugitae S., Hasegawae T., Sugimuraj H., Baumhoer D., Knott M. M. L., Sannino G., Marchetto A., Li J., Busch D. H., Feuchtinger T., Ohmura S., Orth M. F., Thielb U., Kirchnerl T., Grünwald T. G. P.

*Oncimmun.* 2018; **7**(9): e1481558

**Targeting scFv-Fc-scTRAIL fusion proteins to tumor cells**

Hutt M., Fellermeier-Kopf S., Seifert O., Schmitt L. C., Pfizenmaier K., Kontermann R. E.  
*Oncotarget* 2018; **9**(13):11322

**The Parkinson's disease VPS35[D620N] mutation enhances LRRK2-mediated Rab protein phosphorylation in mouse and human**

Mir R., Tonelli F., Lis P., Macartney T., Polinski N.K., Martinez T. N., Chou M. Y., Howden A. J. M., König T., Hotzy C., Milenkovic I., Brücke T., Zimprich A., Sammler E., Alessi D. R.  
*Biochem J.* 2018; **475** (11): 1861

**2017**

**An alternative field switching ion gate for ESI-ion mobility spectrometry**

Zühlke M., Zenichowski K., Riebe D., Beitz T., Löhmannsröben H.-G.  
*Int. J. Ion Mobil. Spectr.* 2017; **20** : 67

**Acquired mutations in BCL2 family proteins conferring resistance to the BH3 mimetic ABT-199 in lymphoma**

Fresquet V., Rieger M., Carolis C., García-Barchino M. J., Martinez-Climent J. A.  
*Blood* 2014; **123** (26) : 4111

**CD4+ T-Cell Reactivity to Orexin/Hypocretin in Patients With Narcolepsy Type**

Ramberger M., Högl B., Stefani A., Mitterling T., Reindl M., Lutterotti A.  
*Sleep* 2017; **40** (3)

**Definition and characterization of novel HLA-A\*02-restricted CD8+ T cell epitopes derived from JCV polyomavirus with clinical relevance**

Mani J., Wang L., Hückelhoven A. G., Schmitt A., Gedvilaite A., Jin N., Kleist C., Ho A. D., Schmitt M.  
*Oncotarget* 2017; **8** (2): 2485

**Epithelial Gpr116 regulates pulmonary alveolar homeostasis via Gq/11 signaling**

Brown K., Filuta A., Ludwig M. G., Seuwen K., Jaros J., Vidal S., Arora K., Naren A. P., Kandasamy K., Parthasarathi K., Offermanns S., Mason R. J., Miller W. E., Whitsett J. A., Bridges J. P.  
*JCI Insight* 2017; **2** (11)

**Evidence of cross-stage CD8+ T cell epitopes in malaria pre-erythrocytic and blood stage infections**

Müller K., Gibbins M. P., Matuschewski K., Hafalla J. C. R.  
*Parasite Immunol.* 2017; **39** (7)

**Fas Ligand-mediated cytotoxicity of CD4+ T cells during chronic retrovirus infection**

Malyshkina A., Littwitz-Salomon E., Sutter K., Zelinsky G., Windmann S., Schimmer S., Paschen A., Streeck H., Hasenkrug K. J.,



Dittmer U.  
*Sci. Rep.* 2017; **7** (1): 7785

**Glycolipid-peptide conjugate vaccines enhance CD8+ T cell responses against human viral proteins**

Speir M., Authier-Hall A., Brooks C. R., Farrand K. J., Compton B. J., Anderson R. J., Heiser A., Osmond T. L., Tang C. W., Berzofsky J. A., Terabe M., Painter G. F., Hermans I. F., Weinkove R.  
*Sci. Rep.* 2017; **7** (1): 14273

**In silico Epitope Mapping of Glucose-6-Phosphate Isomerase: A Rheumatoid Arthritis Autoantigen**

Opuni K. F. M., Solomon S., Metzen F., Frommholz D., Koy C., Röwer C., Glocker M. O., Illges H., Anderson P. C.  
*J. Proteomics Bioinform.* 2017; **10**: 60

**Large-Scale Oral Treatment Study with the Four Most Promising D3-n Derivatives for the Treatment of Alzheimer's Disease**

Kutzsche J., Schemmert S., Tusche M., Neddens J., Rabl R., Jürgens D., Brener O., Willuweit A., Hutter-Paier B., Willbold D.  
*Molecules* 2017; **22** (10)

**Mesothelin as a novel biomarker and immunotherapeutic target in human glioblastoma**

Liu Z., Rao M., Poiret T., Nava S., Meng Q., von Landenberg A., Bartek J., Xie S., Sinclair G., Peredo I., Dodoo E., Maeurer M.  
*Oncotarget* 2017; **8** (46): 80208

**Multiple WW domains of Nedd4-1 undergo conformational exchange that is quenched upon peptide binding**

Panwalkar V., Neudecker P., Willbold D., Dingley A. J.  
*FEBS Lett.* 2017; **591** (11): 1573

**Noninvasive Imaging of Human Immune Responses in a Human Xenograft Model of Graft-Versus-Host Disease**

Van Elssen C. H. M. J., Rashidian M., Vrbanac V., Wucherpfennig K. W., Habre Z. E., Sticht J., Freund C., Jacobsen J. T., Cragolini J., Ingram J., Plaisier L., Spierings E., Tager A. M., Ploegh H. L.  
*J. Nucl. Med.* 2017; **58** (6): 1003

**Quantification of Relaxin-2 Connecting Peptide (Pro-RLX2) in Human Blood Samples**

Rehfeldt M., Sparwasser A., Funk E., Köhrle J., Bergmann A.  
*JALM* 2017; **2** (3): 322

**Structural and functional analyses of pyroglutamate-amyloid- $\beta$ -specific antibodies as a basis for Alzheimer immunotherapy**

Piechotta A., Parthier C., Kleinschmidt M., Gnoth K., Pillot T., Lues I., Demuth H. U., Schilling S., Rahfeld J. U., Stubbs M. T.  
*J. Biol. Chem.* 2017; **292** (30): 12713

**Surprisingly high stability of the A $\beta$  oligomer eliminating all-d-enantiomeric peptide D3 in media simulating the route of orally**

### **administered drugs**

Elfgen A., Santiago-Schübel B., Gremer L., Kutzsche J., Willbold D.  
*Eur. J. Pharm. Sci.* 2017; **30** (107): 203

### **Transcutaneous immunization with a novel imiquimod nanoemulsion induces superior T cell responses and virus protection**

Lopez P. A., Denny M., Hartmann A. K., Alflen A., Probst H. C., von Stebut E., Tenzer S., Schild H., Stassen M., Langguth P., Radsak M. P.  
*J. Dermatol. Sci.* 2017; **87** (3): 252

### **2016**

### **An optimized antibody-single-chain TRAIL fusion protein for cancer therapy**

Siegemund M., Seifert O., Zarani M., Džinić T., De Leo V., Göttisch D., Munkel S., Hutt M., Pfizenmaier K., Kontermann R. E.  
*MAbs* 2016; **8** (5): 879

### **Competitive Mirror Image Phage Display Derived Peptide Modulates Amyloid Beta Aggregation and Toxicity**

Rudolph S., Klein A. N., Tusche M., Schlosser C., Elfgen A., Brener O., Teunissen C., Gremer L., Funke S. A., Kutzsche J., Willbold D.  
*PLoS One* 2016; **11** (2): e0147470

### **Expansion of Tumor-reactive T Cells From Patients With Pancreatic Cancer**

Meng Q., Liu Z., Rangelova E., Poiret T., Ambati A., Rane L., Xie S., Verbeke C., Dodoo E., Del Chiaro M., Löhr M., Segersvärd R., Maeurer M. J.  
*J. Immunother.* 2016; **39** (2): 81

### **Induction of T regulatory cells by the superagonistic anti-CD28 antibody D665 leads to decreased pathogenic IgG autoantibodies against desmoglein 3 in a HLA-transgenic mouse model of pemphigus vulgaris**

Schmidt T., Willenborg S., Hünig T., Deeg C. A., Sonderstrup G., Hertl M., Eming R.  
*Exp. Dermatol.* 2016; **25** (4): 293

### **Mechanisms of immune escape in central nervous system infection with neurotropic JC virus variant**

Jelcic I., Kempf C., Largey F., Planas R., Schippling S., Budka H., Sospedra M., Martin R.  
*Ann. Neurol.* 2016; **79** (3): 404

### **Separation of cis and trans Isomers of Polyproline by FAIMS Mass Spectrometry**

Creese A. J., Cooper H. J.  
*J. Am. Soc. Mass Spectrom.* 2016; **27** (12): 2071

### **Urolinin: The First Linear Peptidic Urotensin-II Receptor Agonist**

Bandholtz S., Erdmann S., von Hacht J. L., Exner S., Krause G.,

Kleinau G., Grötzinger C.  
*J. Med. Chem.* 2016; **59** (22): 10100

## 2015

### **A novel monoclonal antibody to a defined peptide epitope in MUC16**

Marcos-Silva L., Ricardo S., Chen K., Blixt O., Arigi E., Pereira D., Høgdall E., Mandel U., Bennett E. P., Vakhrushev S. Y., David L., Clausen H.  
*Glycobiol.* 2015; **25** (11): 1172

### **Cancer-testis antigen SLLP1 represents a promising target for the immunotherapy of multiple myeloma**

Yousef S., Heise J., Lajmi N., Bartels K., Kröger N., Luetkens T., Atanackovic D.  
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