

2017



Abdelrahman A, Namasivayam V, Hinz S, Schiedel AC, Köse M, Burton M, El-Tayeb A, Gillard M, Bajorath J, de Ryck M, Müller CE. Characterization of P2X4 receptor agonists and antagonists by calcium influx and radioligand binding studies. *Biochem Pharmacol.* 2017 Feb 1;125:41-54. doi: 10.1016/j.bcp.2016.11.016. Epub 2016 Nov 17. PubMed PMID: 27867013.

Abdul-Hammed M, Breiden B, Schwarzmann G, Sandhoff K. Lipids regulate the hydrolysis of membrane bound glucosylceramide by lysosomal β -glucocerebrosidase. *J Lipid Res.* 2017 Mar;58(3):563-577. doi: 10.1194/jlr.M073510. Epub 2017 Jan 26. PubMed PMID: 28126847; PubMed Central PMCID: PMC5335586.

Alecu I, Tedeschi A, Behler N, Wunderling K, Lamberz C, Lauterbach MA, Gaebler A, Ernst D, Van Veldhoven PP, Al-Amoudi A, Latz E, Othman A, Kuerschner L, Hornemann T, Bradke F, Thiele C, Penno A. Localization of 1-deoxysphingolipids to mitochondria induces mitochondrial dysfunction. *J Lipid Res.* 2017 Jan;58(1):42-59. doi: 10.1194/jlr.M068676. Epub 2016 Nov 23. PubMed PMID: 27881717; PubMed Central PMCID: PMC5234710.

Alecu I, Othman A, **Penno A**, Saied EM, Arenz C, von Eckardstein A, Hornemann T. Cytotoxic 1-deoxysphingolipids are metabolized by a cytochrome P450-dependent pathway. *J Lipid Res.* 2017 Jan;58(1):60-71. doi: 10.1194/jlr.M072421. Epub 2016 Nov 21. PubMed PMID: 27872144; PubMed Central PMCID: PMC5234722.

Almeida-Carvalho MJ, Berh D, Braun A, Chen YC, Eichler K, Eschbach C, Fritsch PMJ, Gerber B, Hoyer N, Jiang X, Kleber J, Klämbt C, König C, Louis M, Michels B, Mirochnikow A, Mirth C, Miura D, Niewalda T, Otto N, Paisios E, **Pankratz MJ**, Petersen M, Ramsperger N, Randel N, Risse B, Saumweber T, **Schlegel P**, Schleyer M, Soba P, Sprecher SG, Tanimura T, Thum AS, Toshima N, Truman JW, Yarali A, Zlatic M. The Ol(1)mpiad: concordance of behavioural faculties of stage 1 and stage 3 Drosophila larvae. *J Exp Biol.* 2017 Jul 1;220(Pt 13):2452-2475. doi: 10.1242/jeb.156646. PubMed PMID: 28679796.

Aschenbrenner AC, Schultze JL. New „programmers“ in tissue macrophage activation. *Pflugers Arch.* 2017 Apr;469(3-4):375-383. doi: 10.1007/s00424-017-1943-9. Epub 2017 Feb 9. Review. PubMed PMID: 28185067.

Aschenbrenner AC, Bassler K, Brondolin M, Bonaguro L, Carrera P, Klee K, Ulas T, Schultze JL, Hoch M. A cross-species approach to identify transcriptional regulators exemplified for Dnajc22 and Hnf4a. *Sci Rep.* 2017 Jun 22;7(1):4056. doi: 10.1038/s41598-017-04370-9. PubMed PMID: 28642491; PubMed Central PMCID: PMC5481429.

Bail K, Notz Q, Rovituso DM, Schampel A, Wunsch M, Koeniger T, Schropp V, Bharti R, **Scholz CJ**, Foerstner KU, Kleinschmitz C, Kuerten S. Differential effects of FTY720 on the B cell compartment in a mouse model of multiple sclerosis. *J Neuroinflammation.* 2017 Jul 24;14(1):148. doi:10.1186/s12974-017-0924-4. PubMed PMID: 28738885; PubMed Central PMCID: PMC5525315.

Bajorath J. Representation and identification of activity cliffs. *Expert Opin Drug Discov.* 2017 Sep;12(9):879-883. doi: 10.1080/17460441.2017.1353494. Epub 2017 Jul 12. PubMed PMID: 28685615.

Bajorath J. Computational scaffold hopping: cornerstone for the future of drug design? *Future Med Chem.* 2017 May;9(7):629-631. doi: 10.4155/fmc-2017-0043. Epub 2017 May 9. PubMed PMID: 28485634.

Bajorath J. Expanding the chemical information science gateway. *F1000Res.* 2017 Sep 27;6:1764. doi: 10.12688/f1000research.12772.1. eCollection 2017. PubMed PMID: 29043072; PubMed Central PMCID: PMC5621098.

Bajorath J. Compound Data Mining for Drug Discovery. *Methods Mol Biol.* 2017;1526:247-256. PubMed PMID: 27896746.

Bajorath J. Molecular Similarity Concepts for Informatics Applications. *Methods Mol Biol.* 2017;1526:231-245. PubMed PMID: 27896745.

Beyer M, Huehn J. Epigenetic orchestration of thymic T(reg) cell development. *Nat Immunol.* 2017 Jan 19;18(2):144-146. doi: 10.1038/ni.3660. PubMed PMID: 28102221.

Bilkei-Gorzo A, Albayram O, Draffehn A, Michel K, Piyanova A, Oppenheimer H, Dvir-Ginzberg M, Rácz I, Ulas T, Imbeault S, Bab I, Schultze JL, Zimmer A. A chronic low dose of Δ(9)-tetrahydrocannabinol (THC) restores cognitive function in old mice. *Nat Med.* 2017 Jun;23(6):782-787. doi: 10.1038/nm.4311. Epub 2017 May 8. PubMed PMID: 28481360.

Brewitz A, Eickhoff S, Dähling S, Quast T, Bedoui S, Kroczeck RA, Kurts C, Garbi N, Barchet W, Iannacone M, Klauschen F, Kolanus W, Kaisho T, Colonna M, Germain RN, Kastenmüller W. CD8(+) T Cells Orchestrate pDC-XCR1(+) Dendritic Cell Spatial and Functional Cooperativity to Optimize Priming. *Immunity.* 2017 Feb 21;46(2):205-219. doi: 10.1016/j.jimmuni.2017.01.003. Epub 2017 Feb 9. PubMed PMID: 28190711; PubMed Central PMCID: PMC5362251.

Bülow MH, Wingen C, Senyilmaz D, Gosejacob D, Sociale M, Bauer R, Schulze H, Sandhoff K, Teleman AA, Hoch M, Sellin J. Unbalanced lipolysis results in lipotoxicity and mitochondrial damage in peroxisome-deficient Pex19 mutants. *Mol Biol Cell.* 2018 Feb 15;29(4):396-407. doi: 10.1091/mbc.E17-08-0535. Epub 2017 Dec 27. PubMed PMID: 29282281.

Cabukusta B, Kol M, Kneller L, Hilderink A, Bickert A, Mina JG, Korneev S, Holthuis JC. ER residency of the ceramide phosphoethanolamine synthase SMSr relies on homotypic oligomerization mediated by its SAM domain. *Sci Rep.* 2017 Jan 25;7:41290. doi: 10.1038/srep41290. PubMed PMID: 28120887; PubMed Central PMCID: PMC5264588.

Camell CD, Sander J, Spadaro O, Lee A, Nguyen KY, Wing A, Goldberg EL, Youm YH, Brown CW, Elsworth J, Rodeheffer MS, Schultze JL, Dixit VD. Inflammasome-driven catecholamine catabolism in macrophages blunts lipolysis during ageing. *Nature.* 2017 Oct 5;550(7674):119-123. doi: 10.1038/nature24022. Epub 2017 Sep 27. PubMed PMID: 28953873; PubMed Central PMCID: PMC5718149.

Centola M, Valero J, Famulok M. Allosteric Control of Oxidative Catalysis by a DNA Rotaxane Nanostructure. *J Am Chem Soc.* 2017 Nov 15;139(45):16044-16047. doi: 10.1021/jacs.7b08839. Epub 2017 Nov 1. PubMed PMID: 29058418.

Channar PA, Shah SJ, Hassan S, Nisa ZU, Lecka J, Sévigny J, Bajorath J, Saeed A, Iqbal J. Isonicotinohydrazones as inhibitors of alkaline phosphatase and ecto-5'-nucleotidase. *Chem Biol Drug Des.* 2017 Mar;89(3):365-370. doi: 10.1111/cbdd.12861. Epub 2016 Oct 26. PubMed PMID: 27589035.

Cirovic B, Schönheit J, Kowenz-Leutz E, Ivanovska J, Klement C, Pronina N, Bégay V, Leutz A. C/EBP-Induced Transdifferentiation Reveals Granulocyte-Macrophage Precursor-like Plasticity of B Cells. *Stem Cell Reports.* 2017 Feb 14;8(2):346-359. doi: 10.1016/j.stemcr.2016.12.015. Epub 2017 Jan 19.

Civit L, Taghdisi SM, Jonczyk A, Haßel SK, Gröber C, Blank M, Stunden HJ, Beyer M, Schultze J, Latz E, Mayer G. Systematic evaluation of cell-SELEX enriched aptamers binding to breast cancer cells. *Biochimie*. 2018 Feb;145:53-62. doi: 10.1016/j.biochi.2017.10.007. Epub 2017 Oct 18. PubMed PMID: 29054799.

Cossarizza A, Chang HD, Radbruch A, Akdis M, Andrä I, Annunziato F, Bacher P, Barnaba V, Battistini L, Bauer WM, Baumgart S, Becher B, Beisker W, Berek C, Blanco A, Borsellino G, Boulais PE, Brinkman RR, Büscher M, Busch DH, Bushnell TP, Cao X, Cavani A, Chattopadhyay PK, Cheng Q, Chow S, Clerici M, Cooke A, Cosma A, Cosmi L, Cumano A, Dang VD, Davies D, De Biasi S, Del Zotto G, Della Bella S, Dellabona P, Deniz G, Dessing M, Diefenbach A, Di Santo J, Dieli F, Dolf A, Donnenberg VS, Dörner T, Ehrhardt GRA, Endl E, Engel P, Engelhardt B, Esser C, Everts B, Dreher A, Falk CS, Fehniger TA, Filby A, Fillatreau S, Follo M, Förster I, Foster J, Foulds GA, Frenette PS, Galbraith D, Garbi N, García-Godoy MD, Geginat J, Ghoreschi K, Gibellini L, Goettlinger C, Goodyear CS, Gori A, Grogan J, Gross M, Grütkau A, Grummitt D, Hahn J, Hammer Q, Hauser AE, Haviland DL, Hedley D, Herrera G, Herrmann M, Hiepe F, Holland T, Hombrink P, Houston JP, Hoyer BF, Huang B, Hunter CA, Iannone A, Jäck HM, Jávega B, Jonjic S, Juelke K, Jung S, Kaiser T, Kalina T, Keller B, Khan S, Kienhöfer D, Kroneis T, Kunkel D, Kurts C, Kvistborg P, Lannigan J, Lantz O, Larbi A, LeibundGut-Landmann S, Leipold MD, Levings MK, Litwin V, Liu Y, Lohoff M, Lombardi G, Lopez L, Lovett-Racke A, Lubberts E, Ludewig B, Lugli E, Maecker HT, Martrus G, Matarese G, Maueröder C, McGrath M, McInnes I, Mei HE, Melchers F, Melzer S, Mielenz D, Mills K, Mirrer D, Mjösberg J, Moore J, Moran B, Moretta A, Moretta L, Mosmann TR, Müller S, Müller W, Münz C, Multhoff G, Munoz LE, Murphy KM, Nakayama T, Nasi M, Neudörfl C, Nolan J, Nourshargh S, O'Connor JE, Ouyang W, Oxenius A, Palankar R, Panse I, Peterson P, Peth C, Petriz J, Philips D, Pickl W, Piconese S, Pinti M, Pockley AG, Podolska MJ, Pucillo C, Quataert SA, Radstake TRDJ, Rajwa B, Rebhahn JA, Recktenwald D, Remmerswaal EBM, Rezvani K, Rico LG, Robinson JP, Romagnani C, Rubartelli A, Ruckert B, Ruland J, Sakaguchi S, Sala-de-Oyanguren F, Samstag Y, Sanderson S, Sawitzki B, Scheffold A, Schiemann M, Schildberg F, Schimsky E, Schmid SA, Schmitt S, Schober K, Schüler T, Schulz AR, Schumacher T, Scotta C, Shankey TV, Shemer A, Simon AK, Spidlen J, Stall AM, Stark R, Stehle C, Stein M, Steinmetz T, Stockinger H, Takahama Y, Tarnok A, Tian Z, Toldi G, Tornack J, Traggiai E, Trotter J, Ulrich H, van der Braber M, van Lier RAW, Veldhoen M, Vento-Asturias S, Vieira P, Voehringer D, Volk HD, von Volkmann K, Waisman A, Walker R, Ward MD, Warnatz K, Warth S, Watson JV, Watzl C, Wegener L, Wiedemann A, Wienands J, Willimsky G, Wing J, Wurst P, Yu L, Yue A, Zhang Q, Zhao Y, Ziegler S, Zimmermann J. Guidelines for the use of flow cytometry and cell sorting in immunological studies. *Eur J Immunol*. 2017 Oct;47(10):1584-1797. doi: 10.1002/eji.201646632. PubMed PMID: 29023707.

Dimova D, Stumpfe D, Bajorath J. Computational design of new molecular scaffolds for medicinal chemistry, part II: generalization of analog series-based scaffolds. *Future Sci OA*. 2017 Nov 30;4(2):FSO267. doi: 10.4155/fsoa-2017-0102. eCollection 2018 Feb. PubMed PMID: 29379641; PubMed Central PMCID: PMC5778380.

Dimova D, Bajorath J. Assessing Scaffold Diversity of Kinase Inhibitors Using Alternative Scaffold Concepts and Estimating the Scaffold Hopping Potential for Different Kinases. *Molecules*. 2017 May 3;22(5). pii: E730. doi: 10.3390/molecules22050730. PubMed PMID: 28467353.

Dimova D, Bajorath J. Is scaffold hopping a reliable indicator for the ability of computational methods to identify structurally diverse active compounds? *J Comput Aided Mol Des*. 2017 Jul;31(7):603-608. doi: 10.1007/s10822-017-0032-7. Epub 2017 Jun 16. PubMed PMID: 28623485.

Domenyuk V, Zhong Z, Stark A, Xiao N, O'Neill HA, Wei X, Wang J, Tinder TT, Tonapi S, Duncan J, Hornung T, Hunter A, Miglarese MR, Schorr J, Halbert DD, Quackenbush J, Poste G, Berry DA, **Mayer G, Famulok M, Spetzler D.** Plasma Exosome Profiling of Cancer Patients by a Next Generation Systems Biology Approach. *Sci Rep*. 2017 Feb 20;7:42741. doi: 10.1038/srep42741. PubMed PMID: 28218293; PubMed Central PMCID: PMC5316983.

Eggert F, Kulikov K, Domnick C, Leifels P, Kath-Schorr S. Illuminated by foreign letters - Strategies for site-specific cyclopropene modification of large functional RNAs via in vitro transcription. *Methods*. 2017 May 1;120:17-27. doi: 10.1016/j.ymeth.2017.04.021. Epub 2017 Apr 26. PubMed PMID: 28454775.

Eppler FJ, Quast T, Kolanus W. Dynamin2 controls Rap1 activation and integrin clustering in human T lymphocyte adhesion. *PLoS One*. 2017 Mar 8;12(3):e0172443. doi: 10.1371/journal.pone.0172443. eCollection 2017. PubMed PMID: 28273099; PubMed Central PMCID: PMC5342215.

Faßbender S, Opitz FV, Johnen S, Förster I, Weighardt H. MyD88 Contributes to Staphylococcal Enterotoxin B-Triggered Atopic Dermatitis-Like Skin Inflammation in Mice. *J Invest Dermatol*. 2017 Aug;137(8):1802-1804. doi: 10.1016/j.jid.2017.04.015. Epub 2017 Apr 28. PubMed PMID: 28457911.

Fast LA, Lieber D, Lang T, Florin L. Tetraspanins in infections by human cytomegalo- and papillomaviruses. *Biochem Soc Trans*. 2017 Apr 15;45(2):489-497. doi: 10.1042/BST20160295. Review. PubMed PMID: 28408489

Fülle L, Steiner N, Funke M, Gondorf F, Pfeiffer F, Siegl J, Opitz FV, Haßel SK, Erazo AB, Schanz O, Stunden HJ, Blank M, Gröber C, Händler K, Beyer M, Weighardt H, Latz E, Schultze JL, Mayer G, Förster I. RNA Aptamers Recognizing Murine CCL17 Inhibit T Cell Chemotaxis and Reduce Contact Hypersensitivity In Vivo. *Mol Ther*. 2018 Jan 3;26(1):95-104. doi: 10.1016/j.ymthe.2017.10.005. Epub 2017 Oct 13. PubMed PMID: 29103909; PubMed Central PMCID: PMC5763148.

Galuppo P, Vettorazzi S, Hövelmann J, Scholz CJ, Tuckermann JP, Bauersachs J, Fraccarollo D. The glucocorticoid receptor in monocyte-derived macrophages is critical for cardiac infarct repair and remodeling. *FASEB J*. 2017 Nov;31(11):5122-5132. doi: 10.1096/fj.201700317R. Epub 2017 Aug 2. PubMed PMID: 28768721; PubMed Central PMCID: PMC5636710.

Gilberg E, Stumpfe D, Bajorath J. Towards a systematic assessment of assay interference: Identification of extensively tested compounds with high assay promiscuity. Version 2. *F1000Res*. 2017 Aug 17 [revised 2017 Jan 1];6. pii: Chem Inf Sci-1505. doi: 10.12688/f1000research.12370.2. eCollection 2017. PubMed PMID: 28928939; PubMed Central PMCID: PMC5596351.

Graf CGF, Schulz C, Schmälzlein M, Heinlein C, Mönnich M, Perkams L, Püttner M, Boos I, Hessefort M, Lombana Sanchez JN, Weyand M, Steegborn C, Breiden B, Ross K, Schwarzmann G, Sandhoff K, Unverzagt C. Synthetic Glycoforms Reveal Carbohydrate-Dependent Bioactivity of Human Saposin D. *Angew Chem Int Ed Engl*. 2017 May 2;56(19):5252-5257. doi: 10.1002/anie.201701362. Epub 2017 Apr 5. PubMed PMID: 28378443.

Groh L, Keating ST, Joosten LAB, Netea MG, Riksen NP. Monocyte and macrophage immunometabolism in atherosclerosis. *Semin Immunopathol*. 2018 Feb;40(2):203-214. doi: 10.1007/s00281-017-0656-7. Epub 2017 Oct 2. Review. PubMed PMID: 28971272; PubMed Central PMCID: PMC5809534.

Hackstein CP, Assmus LM, Welz M, Klein S, Schwandt T, Schultze J, Förster I, Gondorf F, Beyer M, Kroy D, Kurts C, Trebicka J, Kastenmüller W, Knolle PA, Abdullah Z. Gut microbial translocation corrupts myeloid cell function to control bacterial infection during liver cirrhosis. *Gut*. 2017 Mar;66(3):507-518. doi: 10.1136/gutjnl-2015-311224. Epub 2016 Jul 18. PubMed PMID: 27432540.

Heine A, Held SAE, Schulte-Schrepping J, Wolff JFA, Klee K, Ulas T, Schmacke NA, Daecke SN, Riethausen K, Schultze JL, Brossart P. Generation and functional characterization of MDSC-like cells. *Oncoimmunology*. 2017 Feb 23;6(4):e1295203. doi: 10.1080/2162402X.2017.1295203. eCollection 2017. PubMed PMID: 28507805; PubMed Central PMCID: PMC5414884.

Heinemann AS, Pirr S, Fehlhaber B, Mellinger L, Burgmann J, Busse M, Ginzel M, Friesenhagen J, von Köckritz-Blickwede M, Ulas T, von Kaisenberg CS, Roth J, Vogl T, Viemann D. In neonates S100A8/S100A9 alarmins prevent the expansion of a specific inflammatory monocyte population promoting septic shock. *FASEB J*. 2017 Mar;31(3):1153-1164. doi: 10.1096/fj.201601083R. Epub 2016 Dec 19. PubMed PMID: 27993995.

Hoeke G, Khedoe PPSJ, van Diepen JA, Pike-Overzet K, van de Ven B, Vazirpanah N, Mol I, Hiemstra PS, Staal FJT, Stienstra R, **Netea MG**, Dinarello CA, Rensen PCN, Berbée JFP. The Effects of Selective Hematopoietic Expression of Human IL-37 on Systemic Inflammation and Atherosclerosis in LDLR-Deficient Mice. *Int J Mol Sci.* 2017 Aug 9;18(8). pii: E1672. doi: 10.3390/ijms18081672. PubMed PMID: 28792474; PubMed Central PMCID: PMC5578062.

Hösel M, Quasdorff M, Ringelhan M, Kashkar H, **Debey-Pascher S**, Sprinzl MF, Bockmann JH, Arzberger S, Webb D, von Olshausen G, Weber A, **Schultze JL**, Büning H, Heikenwalder M, Protzer U. Hepatitis B Virus Activates Signal Transducer and Activator of Transcription 3 Supporting Hepatocyte Survival and Virus Replication. *Cell Mol Gastroenterol Hepatol.* 2017 Jul 19;4(3):339-363. doi: 10.1016/j.jcmgh.2017.07.003. eCollection 2017 Nov. PMID: 28884137

Hofmann K, Rodriguez-Rodriguez R, **Gaebler A**, Casals N, Scheller A, **Kuerschner L**. Astrocytes and oligodendrocytes in grey and white matter regions of the brain metabolize fatty acids. *Sci Rep.* 2017 Sep 7;7(1):10779. doi: 10.1038/s41598-017-11103-5. PubMed PMID: 28883484; PubMed Central PMCID: PMC5589817.

Hofmann K, Lamberz C, **Piotrowitz K**, Offermann N, **But D**, Scheller A, Al-Amoudi A, **Kuerschner L**. Tanyocytes and a differential fatty acid metabolism in the hypothalamus. *Glia.* 2017 Feb;65(2):231-249. doi: 10.1002/glia.23088. Epub 2016 Oct 11. PubMed PMID: 27726181.

Homsi Y, **Lang T**. The specificity of homomeric clustering of CD81 is mediated by its δ-loop. *FEBS Open Bio.* 2017 Jan 19;7(2):274-283. doi: 10.1002/2211-5463.12187. eCollection 2017 Feb. PubMed PMID: 28174692; PubMed Central PMCID: PMC5292664.

Hu Y, **Jasial S**, **Gilberg E**, **Bajorath J**. Structure-Promiscuity Relationship Puzzles-Extensively Assayed Analogs with Large Differences in Target Annotations. *AAPS J.* 2017 May;19(3):856-864. doi: 10.1208/s12248-017-0066-8. Epub 2017 Mar 6. PubMed PMID: 28265982.

Hu Y, **Bajorath J**. Entering the 'big data' era in medicinal chemistry: molecular promiscuity analysis revisited. *Future Sci OA.* 2017 Mar 6;3(2):FSO179. doi: 10.4155/fsoa-2017-0001. eCollection 2017 Jun. Review. PubMed PMID: 28670471; PubMed Central PMCID: PMC5481856.

Hu Y, **Kunimoto R**, **Bajorath J**. Mapping of inhibitors and activity data to the human kinome and exploring promiscuity from a ligand and target perspective. *Chem Biol Drug Des.* 2017 Jun;89(6):834-845. doi: 10.1111/cbdd.12919. Epub 2017 Jan 30. PubMed PMID: 27933727.

Hu Y, **Stumpfe D**, **Bajorath J**. Recent Advances in Scaffold Hopping. *J Med Chem.* 2017 Feb 23;60(4):1238-1246. doi: 10.1021/acs.jmedchem.6b01437. Epub 2016 Dec 21. PubMed PMID: 28001064.

Häußler D, Schulz-Fincke AC, Beckmann AM, Keils A, **Gilberg E**, Mangold M, **Bajorath J**, Stirnberg M, Steinmetzer T, Gütschow M. A Fluorescent-Labeled Phosphono Bisbenzguanidine As an Activity-Based Probe for Matriptase. *Chemistry.* 2017 Apr 19;23(22):5205-5209. doi: 10.1002/chem.201700319. Epub 2017 Mar 28. PubMed PMID: 28370501.

Jantsch J, **Schultze JL**, Kurts C. Immunophysiology: Macrophages as key regulators of homeostasis in various organs. *Pflugers Arch.* 2017 Apr;469(3-4):363-364. doi: 10.1007/s00424-017-1963-5. Epub 2017 Mar 15. PubMed PMID: 28299445.

Jasial S, **Hu Y**, **Bajorath J**. How Frequently Are Pan-Assay Interference Compounds Active? Large-Scale Analysis of Screening Data Reveals Diverse Activity Profiles, Low Global Hit Frequency, and Many Consistently Inactive Compounds. *J Med Chem.* 2017 May 11;60(9):3879-3886. doi: 10.1021/acs.jmedchem.7b00154. Epub 2017 Apr 25. PubMed PMID: 28421750.

Karunakaran I, **van Echten-Deckert G**. Sphingosine 1-phosphate - A double edged sword in the brain. *Biochim Biophys Acta.* 2017 Sep;1859(9 Pt B):1573-1582. doi: 10.1016/j.bbamem.2017.03.008. Epub 2017 Mar 14. Review. PubMed PMID: 28315304.

Kayastha S, Kunimoto R, Horvath D, Varnek A, Bajorath J. From bird's eye views to molecular communities: two-layered visualization of structure-activity relationships in large compound data sets. *J Comput Aided Mol Des.* 2017 Nov;31(11):961-977. doi: 10.1007/s10822-017-0070-1. Epub 2017 Oct 6. PubMed PMID: 28986673.

Kayastha S, Horvath D, Gilberg E, Gütschow M, Bajorath J, Varnek A. Privileged Structural Motif Detection and Analysis Using Generative Topographic Maps. *J Chem Inf Model.* 2017 May 22;57(5):1218-1232. doi: 10.1021/acs.jcim.7b00128. Epub 2017 Apr 21. PubMed PMID: 28409625.

Keating ST, Riksen NP, Netea MG. Planarians SET New Paths for Innate Immune Memory. *EBioMedicine.* 2017 Jun;20:7-8. doi: 10.1016/j.ebiom.2017.05.007. Epub 2017 May 5. PubMed PMID: 28487051; PubMed Central PMCID: PMC5478199.

Kittel-Schneider S, Hilscher M, Scholz CJ, Weber H, Grünwald L, Schwarz R, Chiocchetti AG, Reif A. Lithium-induced gene expression alterations in two peripheral cell models of bipolar disorder. *World J Biol Psychiatry.* 2017 Nov 27:1-14. doi: 10.1080/15622975.2017.1396357. [Epub ahead of print] PubMed PMID: 29067888.

Koch S, Stroisch TJ, Vorac J, Herrmann N, Leib N, Schnautz S, Kirins H, Förster I, Weighardt H, Bieber T. AhR mediates an anti-inflammatory feedback mechanism in human Langerhans cells involving Fc ϵ RI and IDO. *Allergy.* 2017 Nov;72(11):1686-1693. doi: 10.1111/all.13170. Epub 2017 May 10. PubMed PMID: 28376268.

Kreer C, Kuepper JM, Zehner M, Quast T, Kolanus W, Schumak B, Burgdorf S. N-glycosylation converts non-glycoproteins into mannose receptor ligands and reveals antigen-specific T cell responses in vivo. *Oncotarget.* 2017 Jan 24;8(4):6857-6872. doi: 10.18632/oncotarget.14314. PubMed PMID: 28036287; PubMed Central PMCID: PMC5351675.

Kulikov K, Nozinovic S, Kath-Schorr S. The 5'-AG(5) CC-3' Fragment from the Human CPEB3 Ribozyme Forms an Ultrastable Parallel RNA G-Quadruplex. *Chembiochem.* 2017 Jun 1;18(11):969-973. doi: 10.1002/cbic.201700028. Epub 2017 Apr 11. PubMed PMID: 28296179.

Kunimoto R, Bajorath J. Exploring sets of molecules from patents and relationships to other active compounds in chemical space networks. *J Comput Aided Mol Des.* 2017 Sep;31(9):779-788. doi: 10.1007/s10822-017-0061-2. Epub 2017 Sep 4. PubMed PMID: 28871390.

Lachmandas E, Thiem K, van den Heuvel C, Hijmans A, de Galan BE, Tack CJ, Netea MG, van Crevel R, van Diepen JA. Patients with type 1 diabetes mellitus have impaired IL-1 β production in response to Mycobacterium tuberculosis. *Eur J Clin Microbiol Infect Dis.* 2018 Feb;37(2):371-380. doi: 10.1007/s10096-017-3145-y. Epub 2017 Nov 30. PubMed PMID: 29189980; PubMed Central PMCID: PMC5780542.

Lall VK, Bruce G, Voytenko L, Drinkhill M, Wellershaus K, Willecke K, Deuchars J, Deuchars SA. Physiologic regulation of heart rate and blood pressure involves connexin 36-containing gap junctions. *FASEB J.* 2017 Sep;31(9):3966-3977. doi: 10.1096/fj.201600919RR. Epub 2017 May 22. PubMed PMID: 28533325; PubMed Central PMCID: PMC5566179.

Layer JP, Kronmüller MT, Quast T, van den Boorn-Konijnenberg D, Effern M, Hinze D, Althoff K, Schramm A, Westermann F, Peifer M, Hartmann G, Tüting T, Kolanus W, Fischer M, Schulte J, Hözel M. Amplification of N-Myc is associated with a T-cell-poor microenvironment in metastatic neuroblastoma restraining interferon pathway activity and chemokine expression. *Oncoimmunology.* 2017 Apr 28;6(6):e1320626. doi: 10.1080/2162402X.2017.1320626. eCollection 2017. PubMed PMID: 28680756; PubMed Central PMCID: PMC5486176.

Loch G, Zinke I, Mori T, Carrera P, Schroer J, Takeyama H, Hoch M. Antimicrobial peptides extend lifespan in Drosophila. *PLoS One.* 2017 May 17;12(5):e0176689. doi: 10.1371/journal.pone.0176689. eCollection 2017. PubMed PMID: 28520752; PubMed Central PMCID: PMC5435158.

Lünse CE, Mayer G. Reporter Gene-Based Screening for TPP Riboswitch Activators. *Methods Mol Biol.* 2017;1520:227-235. doi: 10.1007/978-1-4939-6634-9_13. PubMed PMID: 27873255.

Maier A, Wu H, Cordasic N, Oefner P, Dietel B, Thiele C, Weidemann A, Eckardt KU, Warnecke C. Hypoxia-inducible protein 2 Hig2/Hilpda mediates neutral lipid accumulation in macrophages and contributes to atherosclerosis in apolipoprotein E-deficient mice. *FASEB J.* 2017 Nov;31(11):4971-4984. doi: 10.1096/fj.201700235R. Epub 2017 Jul 31. PubMed PMID: 28760743.

McGovern N, Shin A, Low G, Low D, Duan K, Yao LJ, Msallam R, Low I, Shadan NB, Sumatoh HR, Soon E, Lum J, Mok E, Hubert S, See P, Kunxiang EH, Lee YH, Janela B, Choolani M, Mattar CNZ, Fan Y, Lim TKH, Chan DKH, Tan KK, Tam JKC, Schuster C, Elbe-Bürger A, Wang XN, Bigley V, Collin M, Haniffa M, Schlitzer A, Poidinger M, Albani S, Larbi A, Newell EW, Chan JKY, Ginhoux F. Human fetal dendritic cells promote prenatal T-cell immune suppression through arginase-2. *Nature.* 2017 Jun 29;546(7660):662-666. doi: 10.1038/nature22795. Epub 2017 Jun 14. PMID: 28614294

Merklinger E, Schloetel JG, Weber P, Batoulis H, Holz S, Karnowski N, Finke J, Lang T. The packing density of a supramolecular membrane protein cluster is controlled by cytoplasmic interactions. *eLife.* 2017 Jul 19;6. pii: e20705. doi: 10.7554/eLife.20705. PubMed PMID: 28722652; PubMed Central PMCID: PMC5536946.

Miljković F, Kunitomo R, Bajorath J. Identifying relationships between unrelated pharmaceutical target proteins on the basis of shared active compounds. *Future Sci OA.* 2017 Jun 1;3(3):FSO212. doi: 10.4155/fsoa-2017-0037. eCollection 2017 Aug. PubMed PMID: 28884009; PubMed Central PMCID: PMC5583696.

Mitroi DN, Karunakaran I, Gräler M, Saba JD, Ehninger D, Ledesma MD, van Echten-Deckert G. SGPL1 (sphingosine phosphate lyase 1) modulates neuronal autophagy via phosphatidylethanolamine production. *Autophagy.* 2017 May 4;13(5):885-899. doi: 10.1080/15548627.2017.1291471. PubMed PMID: 28521611; PubMed Central PMCID: PMC5446076.

Miyao T, Funatsu K, Bajorath J. Exploring differential evolution for inverse QSAR analysis. Version 2. *F1000Res.* 2017 Jul 31 [revised 2017 Jan 1];6. pii: Chem Inf Sci-1285. doi: 10.12688/f1000research.12228.2. eCollection 2017. PubMed PMID: 28928936; PubMed Central PMCID: PMC5580410.

Müller G, Berkenbosch T, Benningshof JC, Stumpfe D, Bajorath J. Charting Biologically Relevant Spirocyclic Compound Space. *Chemistry.* 2017 Jan 12;23(3):703-710. doi: 10.1002/chem.201604714. Epub 2016 Dec 5. PubMed PMID: 27859909.

Netea-Maier RT, Smit JWA, Netea MG. Metabolic changes in tumor cells and tumor-associated macrophages: A mutual relationship. *Cancer Lett.* 2018 Jan 28;413:102-109. doi: 10.1016/j.canlet.2017.10.037. Epub 2017 Oct 27. Review. PubMed PMID: 29111350.

Nguyen DTT, Richter D, Michel G, Mitschka S, Kolanus W, Cuevas E, Wulczyn FG. The ubiquitin ligase LIN41/TRIM71 targets p53 to antagonize cell death and differentiation pathways during stem cell differentiation. *Cell Death Differ.* 2017 Jun;24(6):1063-1078. doi: 10.1038/cdd.2017.54. Epub 2017 Apr 21. PubMed PMID: 28430184; PubMed Central PMCID: PMC5442473.

Niazy N, Temme S, Bocuk D, Giesen C, König A, Temme N, Ziegfeld A, Gregers TF, Bakke O, Lang T, Eis-Hübinger AM, Koch N. Misdirection of endosomal trafficking mediated by herpes simplex virus-encoded glycoprotein B. *FASEB J.* 2017 Apr;31(4):1650-1667. doi: 10.1096/fj.201600521R. Epub 2017 Jan 24. PubMed PMID: 28119397.

Pesch YY, Riedel D, Behr M. Drosophila Chitinase 2 is expressed in chitin producing organs for cuticle formation. *Arthropod Struct Dev.* 2017 Jan;46(1):4-12. doi: 10.1016/j.asd.2016.11.002. Epub 2016 Nov 19. PubMed PMID: 27832982.

Pfeiffer F, Rosenthal M, Siegl J, Ewers J, Mayer G. Customised nucleic acid libraries for enhanced aptamer selection and performance. *Curr Opin Biotechnol.* 2017 Dec;48:111-118. doi: 10.1016/j.copbio.2017.03.026. Epub 2017 Apr 22. Review. PubMed PMID: 28437710.

Pillaiyar T, Köse M, Sylvester K, Weighardt H, Thimm D, Borges G, Förster I, von Kügelgen I, Müller CE. Diindolylmethane Derivatives: Potent Agonists of the Immunostimulatory Orphan G Protein-Coupled Receptor GPR84. *J Med Chem.* 2017 May 11;60(9):3636-3655. doi: 10.1021/acs.jmedchem.6b01593. Epub 2017 May 1. PubMed PMID: 28406627.

Popovic ZV, Embgenbroich M, Chessa F, Nordström V, Bonrouhi M, Hielscher T, Gretz N, Wang S, Mathow D, Quast T, Schloetel JG, Kolanus W, Burgdorf S, Gröne HJ. Hyperosmolarity impedes the cross-priming competence of dendritic cells in a TRIF-dependent manner. *Sci Rep.* 2017 Mar 22;7(1):311. doi: 10.1038/s41598-017-00434-y. PubMed PMID: 28331179; PubMed Central PMCID: PMC5428499.

Press E, Alaga KC, Barr K, Shao Q, Bosen F, Willecke K, Laird DW. Disease-linked connexin26 S17F promotes volar skin abnormalities and mild wound healing defects in mice. *Cell Death Dis.* 2017 Jun 1;8(6):e2845. doi: 10.1038/cddis.2017.234. PubMed PMID: 28569788; PubMed Central PMCID: PMC5520893.

Rabold K, Netea MG, Adema GJ, Netea-Maier RT. Cellular metabolism of tumor-associated macrophages - functional impact and consequences. *FEBS Lett.* 2017 Oct;591(19):3022-3041. doi: 10.1002/1873-3468.12771. Epub 2017 Aug 11. Review. PubMed PMID: 28771701.

Ranches G, Lukasser M, Schramek H, Ploner A, Stasyk T, Mayer G, Mayer G, Hüttenhofer A. In Vitro Selection of Cell-Internalizing DNA Aptamers in a Model System of Inflammatory Kidney Disease. *Mol Ther Nucleic Acids.* 2017 Sep 15;8:198-210. doi: 10.1016/j.omtn.2017.06.018. Epub 2017 Jun 27. PubMed PMID: 28918021; PubMed Central PMCID: PMC5504087.

Reinhardt J, Landsberg J, Schmid-Burgk JL, Ramis BB, Bald T, Glodde N, Lopez-Ramos D, Young A, Ngiow SF, Nettersheim D, Schorle H, Quast T, Kolanus W, Schadendorf D, Long GV, Madore J, Scolyer RA, Ribas A, Smyth MJ, Tumeh PC, Tüting T, Hözel M. MAPK Signaling and Inflammation Link Melanoma Phenotype Switching to Induction of CD73 during Immunotherapy. *Cancer Res.* 2017 Sep 1;77(17):4697-4709. doi: 10.1158/0008-5472.CAN-17-0395. Epub 2017 Jun 26. PubMed PMID: 28652246.

Richard M, Bauer R, Tavosanis G, Hoch M. The gap junction protein Innexin3 is required for eye disc growth in Drosophila. *Dev Biol.* 2017 May 15;425(2):191-207. doi: 10.1016/j.ydbio.2017.04.001. Epub 2017 Apr 5. PubMed PMID: 28390801.

Rieck M, Kremser C, Jobin K, Mettke E, Kurts C, Gräler M, Willecke K, Kolanus W. Ceramide synthase 2 facilitates S1P-dependent egress of thymocytes into the circulation in mice. *Eur J Immunol.* 2017 Apr;47(4):677-684. doi: 10.1002/eji.201646623. Epub 2017 Feb 27. PubMed PMID: 28198542.

Rodríguez-Pérez R, Vogt M, Bajorath J. Influence of Varying Training Set Composition and Size on Support Vector Machine-Based Prediction of Active Compounds. *J Chem Inf Model.* 2017 Apr 24;57(4):710-716. doi: 10.1021/acs.jcim.7b00088. Epub 2017 Apr 10. PubMed PMID: 28376613; PubMed Central PMCID: PMC5417594.

Ruland C, Renken H, Kuzmanov I, Fattahi Mehr A, Schwarte K, Cerina M, Herrmann A, Otte DM, Zimmer A, Schwab N, Meuth SG, Arolt V, Klotz L, Förster I, Scheu S, Alferink J. Chemokine CCL17 is expressed by dendritic cells in the CNS during experimental autoimmune encephalomyelitis and promotes pathogenesis of disease. *Brain Behav Immun.* 2017 Nov;66:382-393. doi: 10.1016/j.bbi.2017.06.010. Epub 2017 Jun 19. PubMed PMID: 28642092.

Rungaldier S, Umlauf E, Mairhofer M, Salzer U, Thiele C, Prohaska R. Structure-function analysis of human stomatin: A mutation study. *PLoS One.* 2017 Jun 2;12(6):e0178646. doi: 10.1371/journal.pone.0178646. eCollection 2017. PubMed PMID: 28575093; PubMed Central PMCID: PMC5456319.

Sander J, Schultze JL, Yosef N. ImpulseDE: detection of differentially expressed genes in time series data using impulse models. *Bioinformatics*. 2017 Mar 1;33(5):757-759. doi: 10.1093/bioinformatics/btw665. PubMed PMID: 27797772; PubMed Central PMCID: PMC5859984.

Sander J, Schmidt SV, Cirovic B, McGovern N, Papantonopoulou O, Hardt AL, Aschenbrenner AC, Kreer C, Quast T, Xu AM, Schmidleithner LM, Theis H, Thi Huong LD, Sumatoh HRB, Lauterbach MAR, Schulte-Schrepping J, Günther P, Xue J, Baßler K, Ulas T, Klee K, Katzmarski N, Herresthal S, Krebs W, Martin B, Latz E, Händler K, Kraut M, Kolanus W, Beyer M, Falk CS, Wiegmann B, Burgdorf S, Melosh NA, Newell EW, Ginhoux F, Schlitzer A, Schultze JL. Cellular Differentiation of Human Monocytes Is Regulated by Time-Dependent Interleukin-4 Signaling and the Transcriptional Regulator NCOR2. *Immunity*. 2017 Dec 19;47(6):1051-1066.e12. doi: 10.1016/j.jimmuni.2017.11.024. PubMed PMID: 29262348; PubMed Central PMCID: PMC5772172.

Sanyal A, Naumann J, Hoffmann LS, Chabowska-Kita A, Ehrlund A, Schlitzer A, Arner P, Blüher M, Pfeifer A, Interplay between Obesity-Induced Inflammation and cGMP Signaling in White Adipose Tissue. *Cell Rep*. 2017 Jan 3;18(1):225-236. doi: 10.1016/j.celrep.2016.12.028. Nimodipine fosters remyelination in a mouse model of multiple sclerosis and induces microglia-specific apoptosis.

Schampel A, Volovitch O, Koeniger T, Scholz CJ, Jörg S, Linker RA, Wischmeyer E, Wunsch M, Hell JW, Ergün S, Kuerten S. Proc Natl Acad Sci U S A. 2017 Apr 18;114(16):E3295-E3304. doi: 10.1073/pnas.1620052114. Epub 2017 Apr 5.

Schonauer S, Körschen HG, Penno A, Rennhack A, Breiden B, Sandhoff K, Gutbrod K, Dörmann P, Raju DN, Haberkant P, Gerl MJ, Brügger B, Zigdon H, Vardi A, Futerman AH, Thiele C, Wachten D. Identification of a feedback loop involving β-glucosidase 2 and its product sphingosine sheds light on the molecular mechanisms in Gaucher disease. *J Biol Chem*. 2017 Apr 14;292(15):6177-6189. doi: 10.1074/jbc.M116.762831. Epub 2017 Mar 3. PubMed PMID: 28258214; PubMed Central PMCID: PMC5391749.

Schoofs A, Hückesfeld S, Pankratz MJ. Serotonergic network in the subesophageal zone modulates the motor pattern for food intake in *Drosophila*. *J Insect Physiol*. 2017 Jul 19. pii: S0022-1910(17)30115-4. doi: 10.1016/j.jinsphys.2017.07.007. [Epub ahead of print] PubMed PMID: 28735009.

Schultze JL. Chromatin Remodeling in Monocyte and Macrophage Activation. *Adv Protein Chem Struct Biol*. 2017;106:1-15. doi: 10.1016/bs.apcsb.2016.09.001. Epub 2016 Oct 18. Review. PubMed PMID: 28057208.

Schüller A, Matzner D, Lünse CE, Wittmann V, Schumacher C, Unsleber S, Brötz-Oesterhelt H, Mayer C, Bierbaum G, Mayer G. Activation of the glmS Ribozyme Confers Bacterial Growth Inhibition. *Chembiochem*. 2017 Mar 2;18(5):435-440. doi: 10.1002/cbic.201600491. Epub 2017 Jan 30. PubMed PMID: 28012261.

See P, Dutertre CA, Chen J, Günther P, McGovern N, Irac SE, Gunawan M, Beyer M, Händler K, Duan K, Sumatoh HRB, Ruffin N, Jouve M, Gea-Mallorquí E, Hennekam RCM, Lim T, Yip CC, Wen M, Malleret B, Low I, Shadan NB, Fen CFS, Tay A, Lum J, Zolezzi F, Larbi A, Poidinger M, Chan JKY, Chen Q, Rénia L, Haniffa M, Benaroch P, Schlitzer A, Schultze JL, Newell EW, Ginhoux F. Mapping the human DC lineage through the integration of high-dimensional techniques. *Science*. 2017 Jun 9;356(6342). pii: eaag3009. doi: 10.1126/science.aag3009. Epub 2017 May 4. PubMed PMID: 28473638.

Sellin J, Schulze H, Paradis M, Gosejacob D, Papan C, Shevchenko A, Psathaki OE, Paululat A, Thielisch M, Sandhoff K, Hoch M. Characterization of *Drosophila* Saposin-related mutants as a model for lysosomal sphingolipid storage diseases. *Dis Model Mech*. 2017 Jun 1;10(6):737-750. doi: 10.1242/dmm.027953. Epub 2017 Apr 7. PubMed PMID: 28389479; PubMed Central PMCID: PMC5483003.

Seyfried P, Eiden L, Grebenovsky N, Mayer G, Heckel A. Photo-Tethers for the (Multi-)Cyclic, Conformational Caging of Long Oligonucleotides. *Angew Chem Int Ed Engl*. 2017 Jan 2;56(1):359-363. doi: 10.1002/anie.201610025. PubMed PMID: 27897376.

Steinert A, Linas I, Kaya B, **Ibrahim M**, Schlitzer A, Hruz P, Radulovic K, Terracciano L, Macpherson AJ, Niess JH. The Stimulation of Macrophages with TLR Ligands Supports Increased IL-19 Expression in Inflammatory Bowel Disease Patients and in Colitis Models. *J Immunol.* 2017 Oct 1;199(7):2570-2584. doi: 10.4049/jimmunol.1700350. Epub 2017 Sep 1. PMID: 28864472

Stienstra R, Netea-Maier RT, Riksen NP, Joosten LAB, **Netea MG**. Specific and Complex Reprogramming of Cellular Metabolism in Myeloid Cells during Innate Immune Responses. *Cell Metab.* 2017 Jul 5;26(1):142-156. doi: 10.1016/j.cmet.2017.06.001. Review. PubMed PMID: 28683282.

Surendar J, **Indulekha K**, Hoerauf A, Hübner MP. Immunomodulation by helminths: Similar impact on type 1 and type 2 diabetes? *Parasite Immunol.* 2017 May;39(5). doi: 10.1111/pim.12401. Epub 2016 Dec 15. Review. PubMed PMID: 27862000.

Surendran S, Hückesfeld S, Wäschle B, Pankratz MJ. Pathogen-induced food evasion behavior in Drosophila larvae. *J Exp Biol.* 2017 May 15;220(Pt 10):1774-1780. doi: 10.1242/jeb.153395. Epub 2017 Mar 2. PubMed PMID: 28254879.

Thion MS, Low D, Silvin A, Chen J, Grisel P, **Schulte-Schrepping J**, Blecher R, **Ulas T**, Squarzoni P, Hoeffel G, Coupier F, Siopi E, **David FS**, Scholz C, Shihui F, Lum J, Amoyo AA, Larbi A, Poidinger M, Buttgereit A, Lledo PM, Greter M, Chan JKY, Amit I, **Beyer M**, Schultze JL, Schlitzer A, Pettersson S, Ginhoux F, Garel S. Microbiome Influences Prenatal and Adult Microglia in a Sex-Specific Manner. *Cell.* 2018 Jan 25;172(3):500-516.e16. doi: 10.1016/j.cell.2017.11.042. Epub 2017 Dec 21. PubMed PMID: 29275859; PubMed Central PMCID: PMC5786503.

Ulas T, Pirr S, Fehlhaber B, Bickes MS, Loof TG, Vogl T, Mellinger L, Heinemann AS, Burgmann J, Schöning J, Schreek S, Pfeifer S, Reuner F, Völlger L, Stanulla M, von Köckritz-Blickwede M, Glander S, Barczyk-Kahlert K, von Kaisenberg CS, Friesenhagen J, Fischer-Riepe L, Zenker S, **Schultze JL**, Roth J, Viemann D. S100-alarmin-induced innate immune programming protects newborn infants from sepsis. *Nat Immunol.* 2017 May 1. doi: 10.1038/ni.3745. [Epub ahead of print] Valero J, Lohmann F, Famulok M. Interlocked DNA topologies for nanotechnology. *Curr Opin Biotechnol.* 2017 Dec;48:159-167. doi: 10.1016/j.copbio.2017.04.002. Epub 2017 May 12. Review. PubMed PMID: 28505598.

Valero J, Lohmann F, Famulok M. Interlocked DNA topologies for nanotechnology. *Curr Opin Biotechnol.* 2017 May 12;48:159-167. doi: 10.1016/j.copbio.2017.04.002. [Epub ahead of print] Review. PMID: 28505598

van der Heijden CDCC, Noz MP, Joosten LAB, **Netea MG**, Riksen NP, Keating ST. Epigenetics and Trained Immunity. *Antioxid Redox Signal.* 2017 Nov 21. doi: 10.1089/ars.2017.7310. [Epub ahead of print] PubMed PMID: 28978221.

Vienken H, Mabrouki N, Grabau K, Claas RF, Rudowski A, Schömel N, Pfeilschifter J, Lütjohann D, **van Echten-Deckert G**, Meyer Zu Heringdorf D. Characterization of cholesterol homeostasis in sphingosine-1-phosphate lyase-deficient fibroblasts reveals a Niemann-Pick disease type C-like phenotype with enhanced lysosomal Ca(2+) storage. *Sci Rep.* 2017 Mar 6;7:43575. doi: 10.1038/srep43575. PubMed PMID: 28262793; PubMed Central PMCID: PMC5337937.

Weber P, Batoulis H, Rink KM, Dahlhoff S, Pinkwart K, Söllner TH, Lang T. Electrostatic anchoring precedes stable membrane attachment of SNAP25/SNAP23 to the plasma membrane. *Elife.* 2017 Feb 27;6. pii: e19394. doi: 10.7554/elife.19394. PubMed PMID: 28240595; PubMed Central PMCID: PMC5362264.

Wiemann J, Yang TR, **Sander PN**, Schneider M, Engeser M, **Kath-Schorr S**, Müller CE, Sander PM. Dinosaur origin of egg color: oviraptors laid blue-green eggs. *PeerJ.* 2017 Aug 29;5:e3706. doi: 10.7717/peerj.3706. eCollection 2017. PubMed PMID: 28875070; PubMed Central PMCID: PMC5580385.

Wingen A, Carrera P, Ekaterini Psathaki O, Voelzmann A, Paululat A, Hoch M. Debris buster is a Drosophila scavenger receptor essential for airway physiology. *Dev Biol.* 2017 Oct 1;430(1):52-68. doi: 10.1016/j.ydbio.2017.08.018. Epub 2017 Aug 15. PubMed PMID: 28821389.

Wolter O, Mayer G. Aptamers as Valuable Molecular Tools in Neurosciences. *J Neurosci.* 2017 Mar 8;37(10):2517-2523. doi: 10.1523/JNEUROSCI.1969-16.2017. Review. PubMed PMID: 28275062.

108: Wunsch M, Jabari S, Voussen B, Enders M, Srinivasan S, Cossais F, Wedel T, Boettner M, Schwarz A, Weyer L, Göcer O, Schroeter M, Maeurer M, Woenckhaus M, Pollok K, Radbruch H, Klotz L, Scholz CJ, Nickel J, Fribe A, Addicks K, Ergün S, Lehmann PV, Kuerten S. The enteric nervous system is a potential autoimmune target in multiple sclerosis. *Acta Neuropathol.* 2017 Aug;134(2):281-295. doi: 10.1007/s00401-017-1742-6. Epub 2017 Jun 15. PubMed PMID: 28620692.

Wörsdörfer P, **Bosen F**, Gebhardt M, Russ N, Zimmermann K, Komla Kessie D, Sekaran T, Egert A, Ergün S, Schorle H, Pfeifer A, Edenhofer F, **Willecke K**. Abrogation of Gap Junctional Communication in ES Cells Results in a Disruption of Primitive Endoderm Formation in Embryoid Bodies. *Stem Cells.* 2017 Apr;35(4):859-871. doi: 10.1002/stem.2545. Epub 2016 Dec 20. PubMed PMID: 27870307.

Wunsch M, Jabari S, Voussen B, Enders M, Srinivasan S, Cossais F, Wedel T, Boettner M, Schwarz A, Weyer L, Göcer O, Schroeter M, Maeurer M, Woenckhaus M, Pollok K, Radbruch H, Klotz L, **Scholz CJ**, Nickel J, Fribe A, Addicks K, Ergün S, Lehmann PV, Kuerten S. The enteric nervous system is a potential autoimmune target in multiple sclerosis. *Acta Neuropathol.* 2017 Aug;134(2):281-295. doi: 10.1007/s00401-017-1742-6. Epub 2017 Jun 15. PubMed PMID: 28620692.

Yin DM, Hannam JS, Schmitz A, Schiemann O, Hagelueken G, Famulok M. Studying the Conformation of a Receptor Tyrosine Kinase in Solution by Inhibitor-Based Spin Labeling. *Angew Chem Int Ed Engl.* 2017 Jul 10;56(29):8417-8421. doi: 10.1002/anie.201703154. Epub 2017 Jun 19. PubMed PMID: 28628261; PubMed Central PMCID: PMC5575716.

Zhang J, Griemann S, Wu Z, Dobrowolski R, **Willecke K**, Theis M, Steinhäuser C, Bedner P. Connexin43, but not connexin30, contributes to adult neurogenesis in the dentate gyrus. *Brain Res Bull.* 2018 Jan;136:91-100. doi: 10.1016/j.brainresbull.2017.07.001. Epub 2017 Jul 6. PubMed PMID: 28689039.

Zhang J, Zamani M, **Thiele C**, Taher J, Amir Alipour M, Yao Z, Adeli K. AUP1 (Ancient Ubiquitous Protein 1) Is a Key Determinant of Hepatic Very-Low-Density Lipoprotein Assembly and Secretion. *Arterioscler Thromb Vasc Biol.* 2017 Apr;37(4):633-642. doi: 10.1161/ATVBAHA.117.309000. Epub 2017 Feb 9. PubMed PMID: 28183703.

Ziegler AB, **Thiele C**, Tenedini F, Richard M, Leyendecker P, Hoermann A, Soba P, Tavosanis G. Cell-Autonomous Control of Neuronal Dendrite Expansion via the Fatty Acid Synthesis Regulator SREBP. *Cell Rep.* 2017 Dec 19;21(12):3346-3353. doi: 10.1016/j.celrep.2017.11.069. PubMed PMID: 29262315.



Carl-Troll-Straße 31
53115 Bonn, Germany

Public Relations / Öffentlichkeitsarbeit
Email: communication@limes-bonn.de