

# Dominik Schwudke

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80  
papers

4,540  
citations

30  
h-index

67  
g-index

100  
ext. papers

5,638  
ext. citations

7.1  
avg, IF

5.24  
L-index

#	Paper	IF	Citations
80	The human LL-37 peptide exerts antimicrobial activity against <i>Legionella micdadei</i> interacting with membrane phospholipids.. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2022</b> , 159138	5.38	0
79	Characterization of phospholipid-modified lung surfactant in vitro and in a neonatal ARDS model reveals anti-inflammatory potential and surfactant lipidome signatures. <i>European Journal of Pharmaceutical Sciences</i> , <b>2022</b> , 175, 106216	5.1	
78	Systematic Analysis of Composition, Interfacial Performance and Effects of Pulmonary Surfactant Preparations on Cellular Uptake and Cytotoxicity of Aerosolized Nanomaterials. <i>Small Science</i> , <b>2021</b> , 1, 2100067		3
77	Needs for an Integration of Specific Data Sources and Items - First Insights of a National Survey Within the German Center for Infection Research. <i>Studies in Health Technology and Informatics</i> , <b>2021</b> , 278, 237-244	0.5	
76	LAMP3 deficiency affects surfactant homeostasis in mice. <i>PLoS Genetics</i> , <b>2021</b> , 17, e1009619	6	0
75	Commensal <i>Streptococcus mitis</i> produces two different lipoteichoic acids of type I and type IV. <i>Glycobiology</i> , <b>2021</b> ,	5.8	1
74	WNT6/ACC2-induced storage of triacylglycerols in macrophages is exploited by <i>Mycobacterium tuberculosis</i> . <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	2
73	Quality control requirements for the correct annotation of lipidomics data. <i>Nature Communications</i> , <b>2021</b> , 12, 4771	17.4	16
72	Lipidation of Pneumococcal Antigens Leads to Improved Immunogenicity and Protection. <i>Vaccines</i> , <b>2020</b> , 8,	5.3	4
71	LipidCreator workbench to probe the lipidomic landscape. <i>Nature Communications</i> , <b>2020</b> , 11, 2057	17.4	26
70	Perspective for Precision Medicine for Tuberculosis. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 566608	8.4	12
69	Substrate structure-activity relationship reveals a limited lipopolysaccharide chemotype range for intestinal alkaline phosphatase. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 19405-19423	5.4	6
68	Inactivation of Bacteria by Irradiation to Investigate the Interaction with Antimicrobial Peptides. <i>Biophysical Journal</i> , <b>2019</b> , 117, 1805-1819	2.9	5
67	Bacterial medium-chain 3-hydroxy fatty acid metabolites trigger immunity in plants. <i>Science</i> , <b>2019</b> , 364, 178-181	33.3	81
66	Blocking IL-10 receptor signaling ameliorates <i>Mycobacterium tuberculosis</i> infection during influenza-induced exacerbation. <i>JCI Insight</i> , <b>2019</b> , 5,	9.9	6
65	Lupus nephritis is linked to disease-activity associated expansions and immunity to a gut commensal. <i>Annals of the Rheumatic Diseases</i> , <b>2019</b> , 78, 947-956	2.4	126
64	Changes in Visceral Adipose Tissue Plasma Membrane Lipid Composition in Old Rats Are Associated With Adipocyte Hypertrophy With Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2018</b> , 73, 1139-1146	6.4	11

63	Shotgun Lipidomics Approach for Clinical Samples. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1730, 163-174	1.4	14
62	Software-aided quality control of parallel reaction monitoring based quantitation of lipid mediators. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1037, 168-176	6.6	2
61	Lipid A structural characterization from the LPS of the Siberian psychro-tolerant <i>Psychrobacter arcticus</i> 273-4 grown at low temperature. <i>Extremophiles</i> , <b>2018</b> , 22, 955-963	3	2
60	Complex lipid metabolic remodeling is required for efficient hepatitis C virus replication. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2018</b> , 1863, 1041-1056	5	32
59	Structural analysis and immunostimulatory potency of lipoteichoic acids isolated from three serotype 2 strains. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 12011-12025	5.4	13
58	Inhibition of Cytosolic Phospholipase A $\beta$ Impairs an Early Step of Coronavirus Replication in Cell Culture. <i>Journal of Virology</i> , <b>2018</b> , 92,	6.6	70
57	PLD3 and spinocerebellar ataxia. <i>Brain</i> , <b>2018</b> , 141, e78	11.2	7
56	Attachment of phosphorylcholine residues to pneumococcal teichoic acids and modification of substitution patterns by the phosphorylcholine esterase. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 10620-10629	5.4	7
55	The Leukotriene B and its Receptor BLT1 Act as Critical Drivers of Neutrophil Recruitment in Murine Bullous Pemphigoid-Like Epidermolysis Bullosa Acquisita. <i>Journal of Investigative Dermatology</i> , <b>2017</b> , 137, 1104-1113	4.3	40
54	A saposin deficiency model in <i>Drosophila</i> : Lysosomal storage, progressive neurodegeneration and sensory physiological decline. <i>Neurobiology of Disease</i> , <b>2017</b> , 98, 77-87	7.5	8
53	Quantification of Phosphatidylinositol Phosphate Species in Purified Membranes. <i>Methods in Enzymology</i> , <b>2017</b> , 587, 271-291	1.7	1
52	Lipid metabolic perturbation is an early-onset phenotype in adult mutants: a model for lysosomal storage disorders. <i>Molecular Biology of the Cell</i> , <b>2017</b> , 28, 3728-3740	3.5	10
51	Lipidomics informatics for life-science. <i>Journal of Biotechnology</i> , <b>2017</b> , 261, 131-136	3.7	18
50	Lipidomes of lung cancer and tumour-free lung tissues reveal distinct molecular signatures for cancer differentiation, age, inflammation, and pulmonary emphysema. <i>Scientific Reports</i> , <b>2017</b> , 7, 11087	4.9	20
49	Lipoteichoic acid deficiency permits normal growth but impairs virulence of <i>Streptococcus pneumoniae</i> . <i>Nature Communications</i> , <b>2017</b> , 8, 2093	17.4	26
48	Unusual Lipid A from a Cold-Adapted Bacterium: Detailed Structural Characterization. <i>ChemBioChem</i> , <b>2017</b> , 18, 1845-1854	3.8	17
47	Lipid Analysis of Airway Epithelial Cells for Studying Respiratory Diseases. <i>Chromatographia</i> , <b>2015</b> , 78, 403-413	2.1	33
46	Phosphatidylinositol 4-phosphate and phosphatidylinositol 3-phosphate regulate phagolysosome biogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 4636-41	11.5	39

45	Ceramides And Stress Signalling Intersect With Autophagic Defects In Neurodegenerative Drosophila blue cheese (bchs) Mutants. <i>Scientific Reports</i> , <b>2015</b> , 5, 15926	4.9	13
44	Lipoteichoic acid of Streptococcus oralis Uo5: a novel biochemical structure comprising an unusual phosphorylcholine substitution pattern compared to Streptococcus pneumoniae. <i>Scientific Reports</i> , <b>2015</b> , 5, 16718	4.9	15
43	Isoniazid@Fe <sub>2</sub> O <sub>3</sub> -Nanocontainer mit antibakterieller Wirkung auf Tuberkulose-Mykobakterien. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 12786-12791	3.6	9
42	Isoniazid@Fe <sub>2</sub> O <sub>3</sub> Nanocontainers and Their Antibacterial Effect on Tuberculosis Mycobacteria. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 12597-601	16.4	25
41	Co-Inactivation of GlnR and CodY Regulators Impacts Pneumococcal Cell Wall Physiology. <i>PLoS ONE</i> , <b>2015</b> , 10, e0123702	3.7	7
40	The LUX Score: A Metric for Lipidome Homology. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004511	5	9
39	Total Synthesis of Five Lipoteichoic acids of Clostridium difficile. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 13511-6	4.8	8
38	Laser capture microdissection coupled with on-column extraction LC-MS(n) enables lipidomics of fluorescently labeled Drosophila neurons. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 5345-52	7.8	23
37	Structural studies of the lipopolysaccharide from the fish pathogen Aeromonas veronii strain Bs19, serotype O16. <i>Marine Drugs</i> , <b>2014</b> , 12, 1298-316	6	11
36	Occurrence of an unusual hopanoid-containing lipid A among lipopolysaccharides from Bradyrhizobium species. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 35644-55	5.4	22
35	Structure of the pneumococcal l,d-carboxypeptidase DacB and pathophysiological effects of disabled cell wall hydrolases DacA and DacB. <i>Molecular Microbiology</i> , <b>2014</b> , 93, 1183-206	4.1	30
34	Altered lipid homeostasis in Drosophila InsP3 receptor mutants leads to obesity and hyperphagia. <i>DMM Disease Models and Mechanisms</i> , <b>2013</b> , 6, 734-44	4.1	46
33	LipidXplorer: Software for Quantitative Shotgun Lipidomics Compatible with Multiple Mass Spectrometry Platforms. <i>Current Protocols in Bioinformatics</i> , <b>2013</b> , 43, 14.12.1-14.12.30	24.2	30
32	Constitutive formation of caveolae in a bacterium. <i>Cell</i> , <b>2012</b> , 150, 752-63	56.2	94
31	LipidXplorer: a software for consensual cross-platform lipidomics. <i>PLoS ONE</i> , <b>2012</b> , 7, e29851	3.7	212
30	A novel informatics concept for high-throughput shotgun lipidomics based on the molecular fragmentation query language. <i>Genome Biology</i> , <b>2011</b> , 12, R8	18.3	241
29	Bottom-up shotgun lipidomics by higher energy collisional dissociation on LTQ Orbitrap mass spectrometers. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 5480-7	7.8	105
28	Shotgun lipidomics on high resolution mass spectrometers. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2011</b> , 3, a004614	10.2	137

27	Structure of sterol aliphatic chains affects yeast cell shape and cell fusion during mating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 4170-5	11.5	42
26	Survival strategies of a sterol auxotroph. <i>Development (Cambridge)</i> , <b>2010</b> , 137, 3675-85	6.6	98
25	Lipidome of narrow-band ultraviolet B irradiated keratinocytes shows apoptotic hallmarks. <i>Experimental Dermatology</i> , <b>2010</b> , 19, e103-10	4	19
24	Maradolipids: Diacyltrehalose Glycolipids Specific to Dauer Larva in <i>Caenorhabditis elegans</i> . <i>Angewandte Chemie</i> , <b>2010</b> , 122, 9620-9625	3.6	2
23	Maradolipids: diacyltrehalose glycolipids specific to dauer larva in <i>Caenorhabditis elegans</i> . <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 9430-5	16.4	39
22	Top-down lipidomics reveals ether lipid deficiency in blood plasma of hypertensive patients. <i>PLoS ONE</i> , <b>2009</b> , 4, e6261	3.7	247
21	Ablation of cholesterol biosynthesis in neural stem cells increases their VEGF expression and angiogenesis but causes neuron apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 8350-5	11.5	47
20	Glycosphingolipid requirements for endosome-to-Golgi transport of Shiga toxin. <i>Traffic</i> , <b>2009</b> , 10, 868-877	3.7	51
19	Central leptin regulates total ceramide content and sterol regulatory element binding protein-1C proteolytic maturation in rat white adipose tissue. <i>Endocrinology</i> , <b>2009</b> , 150, 169-78	4.8	43
18	Lipid extraction by methyl-tert-butyl ether for high-throughput lipidomics. <i>Journal of Lipid Research</i> , <b>2008</b> , 49, 1137-46	6.3	1261
17	siRNA screening reveals JNK2 as an evolutionary conserved regulator of triglyceride homeostasis. <i>Journal of Lipid Research</i> , <b>2008</b> , 49, 2427-40	6.3	15
16	LET-767 is required for the production of branched chain and long chain fatty acids in <i>Caenorhabditis elegans</i> . <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 17550-60	5.4	64
15	Broad-host-range Yersinia phage PY100: genome sequence, proteome analysis of virions, and DNA packaging strategy. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 332-42	3.5	33
14	Predatory mechanisms of <i>Bdellovibrio</i> and like organisms. <i>Future Microbiology</i> , <b>2007</b> , 2, 63-73	2.9	26
13	Top-down lipidomic screens by multivariate analysis of high-resolution survey mass spectra. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 4083-93	7.8	171
12	Shotgun lipidomics by tandem mass spectrometry under data-dependent acquisition control. <i>Methods in Enzymology</i> , <b>2007</b> , 433, 175-91	1.7	104
11	Lipid profiling by multiple precursor and neutral loss scanning driven by the data-dependent acquisition. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 585-95	7.8	251
10	Transcriptional activity of the host-interaction locus and a putative pilin gene of <i>Bdellovibrio bacteriovorus</i> in the predatory life cycle. <i>Current Microbiology</i> , <b>2005</b> , 51, 310-6	2.4	18

9	Characterization of outer membrane protein fractions of Bdellovibrionales. <i>FEMS Microbiology Letters</i> , <b>2005</b> , 243, 211-7	2.9	9
8	Bdellovibrio bacteriovorus strains produce a novel major outer membrane protein during predacious growth in the periplasm of prey bacteria. <i>Journal of Bacteriology</i> , <b>2004</b> , 186, 2766-73	3.5	18
7	The obligate predatory Bdellovibrio bacteriovorus possesses a neutral lipid A containing alpha-D-Mannoses that replace phosphate residues: similarities and differences between the lipid As and the lipopolysaccharides of the wild type strain B. bacteriovorus HD100 and its host-independent derivative H1100. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 27502-12	5.4	74
6	Taxonomic studies of predatory bdellovibrios based on 16S rRNA analysis, ribotyping and the hit locus and characterization of isolates from the gut of animals. <i>Systematic and Applied Microbiology</i> , <b>2001</b> , 24, 385-94	4.2	61
5	The interaction of Prussian blue and dissolved hexacyanoferrate ions with goethite (alpha-FeOOH) studied to assess the chemical stability and physical mobility of Prussian blue in soils. <i>Ecotoxicology and Environmental Safety</i> , <b>2001</b> , 49, 245-54	7	15
4	Solid-state electrochemical, X-ray and spectroscopic characterization of substitutional solid solutions of iron/copper hexacyanoferrates. <i>Electrochemistry Communications</i> , <b>2000</b> , 2, 301-306	5.1	35
3	WNT6-ACC2-induced accumulation of triacylglycerol rich lipid droplets is exploited by M. tuberculosis		2
2	Global analysis of putative phospholipases in the malaria parasite Plasmodium falciparum reveals critical factors for parasite proliferation		1
1	Tuberculostearic acid (TSA)-containing phosphatidylinositols as reliable marker to determine Mycobacterium tuberculosis bacterial burden		1