

# Bernd Wollscheid

## List of Publications by Year in descending order

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113  
papers

9,157  
citations

47006

47  
h-index

43889

91  
g-index

135  
all docs

135  
docs citations

135  
times ranked

14318  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protter: interactive protein feature visualization and integration with experimental proteomic data. <i>Bioinformatics</i> , 2014, 30, 884-886.	4.1	1,090
2	Mass-spectrometric identification and relative quantification of N-linked cell surface glycoproteins. <i>Nature Biotechnology</i> , 2009, 27, 378-386.	17.5	519
3	A Mass Spectrometric-Derived Cell Surface Protein Atlas. <i>PLoS ONE</i> , 2015, 10, e0121314.	2.5	356
4	Targeted proteomic strategy for clinical biomarker discovery. <i>Molecular Oncology</i> , 2009, 3, 33-44.	4.6	321
5	A complete mass-spectrometric map of the yeast proteome applied to quantitative trait analysis. <i>Nature</i> , 2013, 494, 266-270.	27.8	307
6	Quantitative phosphoproteome analysis using a dendrimer conjugation chemistry and tandem mass spectrometry. <i>Nature Methods</i> , 2005, 2, 591-598.	19.0	302
7	Abnormal Development and Function of B Lymphocytes in Mice Deficient for the Signaling Adaptor Protein SLP-65. <i>Immunity</i> , 1999, 11, 547-554.	14.3	296
8	On the Development of Plasma Protein Biomarkers. <i>Journal of Proteome Research</i> , 2011, 10, 5-16.	3.7	289
9	Integration with the human genome of peptide sequences obtained by high-throughput mass spectrometry. <i>Genome Biology</i> , 2004, 6, R9.	9.6	252
10	SLP-65: A New Signaling Component in B Lymphocytes which Requires Expression of the Antigen Receptor for Phosphorylation. <i>Journal of Experimental Medicine</i> , 1998, 188, 791-795.	8.5	250
11	The in silico human surfaceome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10988-E10997.	7.1	250
12	Chimeric peptidomimetic antibiotics against Gram-negative bacteria. <i>Nature</i> , 2019, 576, 452-458.	27.8	231
13	Quantitative proteomic analysis of B cell lipid rafts reveals that ezrin regulates antigen receptor-mediated lipid raft dynamics. <i>Nature Immunology</i> , 2006, 7, 625-633.	14.5	189
14	Glycoproteomic Analysis of Prostate Cancer Tissues by SWATH Mass Spectrometry Discovers N-acyl ethanolamine Acid Amidase and Protein Tyrosine Kinase 7 as Signatures for Tumor Aggressiveness. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 1753-1768.	3.8	165
15	Mass Spectrometric Detection of Tissue Proteins in Plasma. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 64-71.	3.8	156
16	Two-dimensional Blue Native/SDS Gel Electrophoresis of Multi-Protein Complexes from Whole Cellular Lysates. <i>Molecular and Cellular Proteomics</i> , 2004, 3, 176-182.	3.8	155
17	Direct identification of ligand-receptor interactions on living cells and tissues. <i>Nature Biotechnology</i> , 2012, 30, 997-1001.	17.5	154
18	Association of SLP-65 / BLNK with the B cell antigen receptor through a non-ITAM tyrosine of Ig- $\beta$ . <i>European Journal of Immunology</i> , 2001, 31, 2126-2134.	2.9	126

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19	Blue Native Polyacrylamide Gel Electrophoresis (BN-PAGE) for the Identification and Analysis of Multiprotein Complexes. <i>Science Signaling</i> , 2006, 2006, pl4-pl4.	3.6	115
20	An integrative strategy to identify the entire protein coding potential of prokaryotic genomes by proteogenomics. <i>Genome Research</i> , 2017, 27, 2083-2095.	5.5	112
21	Thanatin targets the intermembrane protein complex required for lipopolysaccharide transport in <i>Escherichia coli</i> . <i>Science Advances</i> , 2018, 4, eaau2634.	10.3	109
22	Quantitative proteomics identifies a Dab2/integrin module regulating cell migration. <i>Journal of Cell Biology</i> , 2009, 186, 99-111.	5.2	106
23	Carbonic anhydrase XII is a new therapeutic target to overcome chemoresistance in cancer cells. <i>Oncotarget</i> , 2015, 6, 6776-6793.	1.8	102
24	UniPep—a database for human N-linked glycosites: a resource for biomarker discovery. <i>Genome Biology</i> , 2006, 7, R73.	9.6	101
25	Neuronal Nogo-A Modulates Growth Cone Motility via Rho-GTP/LIMK1/Cofilin in the Unlesioned Adult Nervous System. <i>Journal of Biological Chemistry</i> , 2009, 284, 10793-10807.	3.4	96
26	SH3P7 Is a Cytoskeleton Adapter Protein and Is Coupled to Signal Transduction from Lymphocyte Antigen Receptors. <i>Molecular and Cellular Biology</i> , 1999, 19, 1539-1546.	2.3	84
27	Analysis of Cell Surface Proteome Changes via Label-free, Quantitative Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 624-638.	3.8	84
28	Vaccinia Virus Entry Is Followed by Core Activation and Proteasome-Mediated Release of the Immunomodulatory Effector VH1 from Lateral Bodies. <i>Cell Reports</i> , 2013, 4, 464-476.	6.4	79
29	Phage resistance at the cost of virulence: <i>Listeria monocytogenes</i> serovar 4b requires galactosylated teichoic acids for InlB-mediated invasion. <i>PLoS Pathogens</i> , 2019, 15, e1008032.	4.7	78
30	Proteomic cell surface phenotyping of differentiating acute myeloid leukemia cells. <i>Blood</i> , 2010, 116, e26-e34.	1.4	76
31	CD24 tracks divergent pluripotent states in mouse and human cells. <i>Nature Communications</i> , 2015, 6, 7329.	12.8	76
32	A Human Pluripotent Stem Cell Surface N-Glycoproteome Resource Reveals Markers, Extracellular Epitopes, and Drug Targets. <i>Stem Cell Reports</i> , 2014, 3, 185-203.	4.8	73
33	Enzymatic Dissociation Induces Transcriptional and Proteotype Bias in Brain Cell Populations. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7944.	4.1	72
34	The Tumor Profiler Study: integrated, multi-omic, functional tumor profiling for clinical decision support. <i>Cancer Cell</i> , 2021, 39, 288-293.	16.8	71
35	The Mouse C2C12 Myoblast Cell Surface N-Linked Glycoproteome. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 2555-2569.	3.8	68
36	A Peptidomimetic Antibiotic Interacts with the Periplasmic Domain of LptD from <i>Pseudomonas aeruginosa</i> . <i>ACS Chemical Biology</i> , 2018, 13, 666-675.	3.4	68

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37	MassIVE.quant: a community resource of quantitative mass spectrometry-based proteomics datasets. <i>Nature Methods</i> , 2020, 17, 981-984.	19.0	66
38	MicroRNA-96 Directly Inhibits $\beta$ -Globin Expression in Human Erythropoiesis. <i>PLoS ONE</i> , 2011, 6, e22838.	2.5	65
39	Leukemia surfaceome analysis reveals new disease-associated features. <i>Blood</i> , 2013, 121, e149-e159.	1.4	63
40	Structure-function relationships of HDL in diabetes and coronary heart disease. <i>JCI Insight</i> , 2020, 5, .	5.0	62
41	Dynamin 2 mutations in Charcot-Marie-Tooth neuropathy highlight the importance of clathrin-mediated endocytosis in myelination. <i>Brain</i> , 2012, 135, 1395-1411.	7.6	60
42	Proteomic Analysis of Human Brown Adipose Tissue Reveals Utilization of Coupled and Uncoupled Energy Expenditure Pathways. <i>Scientific Reports</i> , 2016, 6, 30030.	3.3	60
43	CD20 as a gatekeeper of the resting state of human B cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	59
44	A Cell Surfaceome Map for Immunophenotyping and Sorting Pluripotent Stem Cells. <i>Molecular and Cellular Proteomics</i> , 2012, 11, 303-316.	3.8	58
45	Identification of a seven glycopeptide signature for malignant pleural mesothelioma in human serum by selected reaction monitoring. <i>Clinical Proteomics</i> , 2013, 10, 16.	2.1	58
46	Combine and Conquer: Surfactants, Solvents, and Chaotropes for Robust Mass Spectrometry Based Analyses of Membrane Proteins. <i>Analytical Chemistry</i> , 2014, 86, 1551-1559.	6.5	57
47	Diagnostics and correction of batch effects in large-scale proteomic studies: a tutorial. <i>Molecular Systems Biology</i> , 2021, 17, e10240.	7.2	57
48	Ligand-based receptor identification on living cells and tissues using TRICEPS. <i>Nature Protocols</i> , 2013, 8, 1321-1336.	12.0	55
49	The Hemolymph Proteome of Fed and Starved <i>Drosophila</i> Larvae. <i>PLoS ONE</i> , 2013, 8, e67208.	2.5	55
50	HATRIC-based identification of receptors for orphan ligands. <i>Nature Communications</i> , 2018, 9, 1519.	12.8	55
51	Adverse Outcome Pathway-Driven Analysis of Liver Steatosis <i>in Vitro</i> : A Case Study with Cyproconazole. <i>Chemical Research in Toxicology</i> , 2018, 31, 784-798.	3.3	49
52	Standardization and harmonization of distributed multi-center proteotype analysis supporting precision medicine studies. <i>Nature Communications</i> , 2020, 11, 5248.	12.8	49
53	N-Glycoprotein SRMATlas. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 1005-1016.	3.8	48
54	Identification and Functional Characterization of pVHL-Dependent Cell Surface Proteins in Renal Cell Carcinoma. <i>Neoplasia</i> , 2012, 14, 535-IN17.	5.3	44

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55	Improved prediction of peptide detectability for targeted proteomics using a rank-based algorithm and organism-specific data. <i>Journal of Proteomics</i> , 2014, 108, 269-283.	2.4	43
56	An adverse outcome pathway-based approach to assess steatotic mixture effects of hepatotoxic pesticides in vitro. <i>Food and Chemical Toxicology</i> , 2020, 139, 111283.	3.6	43
57	Teneurin protein family: An emerging role in human tumorigenesis and drug resistance. <i>Cancer Letters</i> , 2012, 326, 1-7.	7.2	38
58	A novel role for proteomics in the discovery of cell surface markers on stem cells: Scratching the surface. <i>Proteomics - Clinical Applications</i> , 2008, 2, 892-903.	1.6	37
59	Image-based RNA interference screening reveals an individual dependence of acute lymphoblastic leukemia on stromal cysteine support. <i>Oncotarget</i> , 2014, 5, 11501-11512.	1.8	37
60	The Stalk Domain and the Glycosylation Status of the Activating Natural Killer Cell Receptor NKp30 Are Important for Ligand Binding. <i>Journal of Biological Chemistry</i> , 2012, 287, 31527-31539.	3.4	33
61	Light-mediated discovery of surfaceome nanoscale organization and intercellular receptor interaction networks. <i>Nature Communications</i> , 2021, 12, 7036.	12.8	33
62	Comparative proteome analysis reveals conserved and specific adaptation patterns of <i>Staphylococcus aureus</i> after internalization by different types of human non-professional phagocytic host cells. <i>Frontiers in Microbiology</i> , 2014, 5, 392.	3.5	32
63	FZD4 Marks Lateral Plate Mesoderm and Signals with NORRIN to Increase Cardiomyocyte Induction from Pluripotent Stem Cell-Derived Cardiac Progenitors. <i>Stem Cell Reports</i> , 2018, 10, 87-100.	4.8	32
64	Surfaceome nanoscale organization and extracellular interaction networks. <i>Current Opinion in Chemical Biology</i> , 2019, 48, 26-33.	6.1	32
65	PCprophet: a framework for protein complex prediction and differential analysis using proteomic data. <i>Nature Methods</i> , 2021, 18, 520-527.	19.0	32
66	Deep sequencing and proteomic analysis of the microRNA-induced silencing complex in human red blood cells. <i>Experimental Hematology</i> , 2015, 43, 382-392.	0.4	31
67	Classification of mouse B cell types using surfaceome proteotype maps. <i>Nature Communications</i> , 2019, 10, 5734.	12.8	31
68	Proteomics approaches for the analysis of enriched microbial subpopulations and visualization of complex functional information. <i>Current Opinion in Biotechnology</i> , 2013, 24, 112-119.	6.6	30
69	Depot specific differences in the adipogenic potential of precursors are mediated by collagenous extracellular matrix and Flotillin 2-dependent signaling. <i>Molecular Metabolism</i> , 2016, 5, 937-947.	6.5	29
70	Comprehensive Description of the N-Glycoproteome of Mouse Pancreatic Î²-Cells and Human Islets. <i>Journal of Proteome Research</i> , 2012, 11, 1598-1608.	3.7	28
71	Surfaceome dynamics reveal proteostasis-independent reorganization of neuronal surface proteins during development and synaptic plasticity. <i>Nature Communications</i> , 2020, 11, 4990.	12.8	27
72	Laminin targeting of a peripheral nerve-highlighting peptide enables degenerated nerve visualization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12774-12779.	7.1	26

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73	Proteomic surfaceome analysis of mesothelioma. <i>Lung Cancer</i> , 2012, 75, 189-196.	2.0	24
74	Cell Surface Capturing Technologies for the Surfaceome Discovery of Hepatocytes. <i>Methods in Molecular Biology</i> , 2012, 909, 1-16.	0.9	24
75	A peptide resource for the analysis of <i>Staphylococcus aureus</i> in host-pathogen interaction studies. <i>Proteomics</i> , 2015, 15, 3648-3661.	2.2	24
76	Integrin-Mediated Signaling Induced by Simian Virus 40 Leads to Transient Uncoupling of Cortical Actin and the Plasma Membrane. <i>PLoS ONE</i> , 2013, 8, e55799.	2.5	22
77	Surfaceome Profiling Reveals Regulators of Neural Stem Cell Function. <i>Stem Cells</i> , 2014, 32, 258-268.	3.2	22
78	Sulforaphane Preconditioning Sensitizes Human Colon Cancer Cells towards the Bioreductive Anticancer Prodrug PR-104A. <i>PLoS ONE</i> , 2016, 11, e0150219.	2.5	22
79	Alterations in <i>BAP1</i> Are Associated with Cisplatin Resistance through Inhibition of Apoptosis in Malignant Pleural Mesothelioma. <i>Clinical Cancer Research</i> , 2021, 27, 2277-2291.	7.0	21
80	Proteomic Analysis Reveals Drug Accessible Cell Surface N-Glycoproteins of Primary and Established Glioblastoma Cell Lines. <i>Journal of Proteome Research</i> , 2012, 11, 4885-4893.	3.7	20
81	Malfunctioning of adipocytes in obesity is linked to quantitative surfaceome changes. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 1208-1216.	2.4	20
82	Fc gamma receptors are expressed in the developing rat brain and activate downstream signaling molecules upon cross-linking with immune complex. <i>Journal of Neuroinflammation</i> , 2018, 15, 7.	7.2	20
83	Surfaceome of classical Hodgkin and non-Hodgkin lymphoma. <i>Proteomics - Clinical Applications</i> , 2015, 9, 661-670.	1.6	19
84	Lipid Raft Proteins and Their Identification in T Lymphocytes. <i>Sub-Cellular Biochemistry</i> , 2004, 37, 121-152.	2.4	19
85	RIP-chip-SRM—a new combinatorial large-scale approach identifies a set of translationally regulated bantam/miR-58 targets in <i>C. elegans</i> . <i>Genome Research</i> , 2012, 22, 1360-1371.	5.5	18
86	Mapping specificity, cleavage entropy, allosteric changes and substrates of blood proteases in a high-throughput screen. <i>Nature Communications</i> , 2021, 12, 1693.	12.8	17
87	Kin of IRRE-like Protein 2 Is a Phosphorylated Glycoprotein That Regulates Basal Insulin Secretion. <i>Journal of Biological Chemistry</i> , 2015, 290, 25891-25906.	3.4	16
88	Leukocyte Differentiation by Histidine-Rich Glycoprotein/Stanniocalcin-2 Complex Regulates Murine Glioma Growth through Modulation of Antitumor Immunity. <i>Molecular Cancer Therapeutics</i> , 2018, 17, 1961-1972.	4.1	16
89	The Adaptor Protein SLP-65/BLNK Controls the Calcium Response in Activated B Cells. <i>Current Topics in Microbiology and Immunology</i> , 1999, 246, 283-289.	1.1	16
90	Antibiotic Discovery with Synthetic Fermentation: Library Assembly, Phenotypic Screening, and Mechanism of Action of $\text{I}^2$ -Peptides Targeting Penicillin-Binding Proteins. <i>ACS Chemical Biology</i> , 2019, 14, 1030-1040.	3.4	14

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91	CD proteome and beyond - technologies for targeting the immune cell surfaceome. <i>Frontiers in Bioscience - Landmark</i> , 2012, 17, 1599.	3.0	14
92	Proteomics/genomics and signaling in lymphocytes. <i>Current Opinion in Immunology</i> , 2004, 16, 337-344.	5.5	13
93	Reproducible Determination of High-Density Lipoprotein Proteotypes. <i>Journal of Proteome Research</i> , 2021, 20, 4974-4984.	3.7	13
94	Detection of protein complex interactions via a Blue Native-PAGE retardation assay. <i>Analytical Biochemistry</i> , 2009, 392, 177-179.	2.4	11
95	CSC Technology: Selective Labeling of Glycoproteins by Mild Oxidation to Phenotype Cells. <i>Methods in Molecular Biology</i> , 2013, 951, 33-43.	0.9	11
96	Listeriolysin O-dependent host surfaceome remodeling modulates <i>Listeria monocytogenes</i> invasion. <i>Pathogens and Disease</i> , 2018, 76, .	2.0	11
97	Transcriptomic Responses of Cancerous and Noncancerous Human Colon Cells to Sulforaphane and Selenium. <i>Chemical Research in Toxicology</i> , 2014, 27, 377-386.	3.3	10
98	Proteotype profiling unmasks a viral signalling network essential for poxvirus assembly and transcriptional competence. <i>Nature Microbiology</i> , 2018, 3, 588-599.	13.3	10
99	Cell-Derived Vesicles as TRPC1 Channel Delivery Systems for the Recovery of Cellular Respiratory and Proliferative Capacities. <i>Advanced Biology</i> , 2020, 4, e2000146.	3.0	10
100	A Proteogenomic Resource Enabling Integrated Analysis of <i>Listeria</i> Genotype-Phenotype Relationships. <i>Journal of Proteome Research</i> , 2020, 19, 1647-1662.	3.7	10
101	Neuroproteomics and the Detection of Regulatory Phosphosites. <i>Current Proteomics</i> , 2007, 4, 209-222.	0.3	8
102	Poxviruses package viral redox proteins in lateral bodies and modulate the host oxidative response. <i>PLoS Pathogens</i> , 2022, 18, e1010614.	4.7	8
103	ESRRG and PERM1 Govern Mitochondrial Conversion in Brite/Beige Adipocyte Formation. <i>Frontiers in Endocrinology</i> , 2020, 11, 387.	3.5	7
104	Focus on Stem Cell Proteomics. <i>Proteomics</i> , 2011, 11, 3943-3945.	2.2	5
105	<i>In vitro</i> quantification of botulinum neurotoxin type A1 using immobilized nerve cell-mimicking nanoreactors in a microfluidic platform. <i>Analyst</i> , 2019, 144, 5755-5765.	3.5	5
106	The hematopoietic stem cell marker VNN2 is associated with chemoresistance in pediatric B-cell precursor ALL. <i>Blood Advances</i> , 2020, 4, 4052-4064.	5.2	5
107	Characterization of the B cell-specific adaptor SLP-65 and other protein tyrosine kinase substrates by two-dimensional gel electrophoresis. <i>Immunology Letters</i> , 1999, 68, 95-99.	2.5	4
108	Elucidation of host-virus surfaceome interactions using spatial proteotyping. <i>Advances in Virus Research</i> , 2021, 109, 105-134.	2.1	4

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109	Identification of New Interacting Partners for Atypical Rho GTPases: A SILAC-Based Approach. <i>Methods in Molecular Biology</i> , 2012, 827, 305-317.	0.9	3
110	Use of MS-GUIDE for identification of protein biomarkers for risk stratification of patients with prostate cancer. <i>Clinical Proteomics</i> , 2022, 19, 9.	2.1	3
111	Immunophenotyping without antibodies. <i>Der Pathologe</i> , 2008, 29, 314-316.	1.6	2
112	Proteomic Exploration of the Cell Surface Landscape Reveals New Leukemia Associated Features.. <i>Blood</i> , 2012, 120, 2506-2506.	1.4	0
113	Computational Data Integration in Toxicogenomics. <i>Methods in Pharmacology and Toxicology</i> , 2015, , 371-392.	0.2	0