

Matthias S Wilm

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115
papers

36,523
citations

71
h-index

119
g-index

119
ext. papers

38,857
ext. citations

14.9
avg, IF

6.79
L-index

#	Paper	IF	Citations
115	Mass spectrometric sequencing of proteins silver-stained polyacrylamide gels. <i>Analytical Chemistry</i> , 1996 , 68, 850-8	7.8	7831
114	A generic protein purification method for protein complex characterization and proteome exploration. <i>Nature Biotechnology</i> , 1999 , 17, 1030-2	44.5	2298
113	Analytical properties of the nanoelectrospray ion source. <i>Analytical Chemistry</i> , 1996 , 68, 1-8	7.8	1639
112	Femtomole sequencing of proteins from polyacrylamide gels by nano-electrospray mass spectrometry. <i>Nature</i> , 1996 , 379, 466-9	50.4	1574
111	Error-tolerant identification of peptides in sequence databases by peptide sequence tags. <i>Analytical Chemistry</i> , 1994 , 66, 4390-9	7.8	1367
110	The tandem affinity purification (TAP) method: a general procedure of protein complex purification. <i>Methods</i> , 2001 , 24, 218-29	4.6	1360
109	Linking genome and proteome by mass spectrometry: large-scale identification of yeast proteins from two dimensional gels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 14440-5	11.5	1292
108	Glucosylation of Rho proteins by Clostridium difficile toxin B. <i>Nature</i> , 1995 , 375, 500-3	50.4	895
107	Electrospray and Taylor-Cone theory, Dole's beam of macromolecules at last?. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1994 , 136, 167-180		728
106	Phosphorylation and inactivation of BAD by mitochondria-anchored protein kinase A. <i>Molecular Cell</i> , 1999 , 3, 413-22	17.6	567
105	Histone H2A deubiquitinase activity of the Polycomb repressive complex PR-DUB. <i>Nature</i> , 2010 , 465, 243-7	50.4	558
104	Activity of DNA ligase IV stimulated by complex formation with XRCC4 protein in mammalian cells. <i>Nature</i> , 1997 , 388, 492-5	50.4	520
103	A novel Rab5 GDP/GTP exchange factor complexed to Rabaptin-5 links nucleotide exchange to effector recruitment and function. <i>Cell</i> , 1997 , 90, 1149-59	56.2	510
102	Phosphatidylinositol-3-OH kinases are Rab5 effectors. <i>Nature Cell Biology</i> , 1999 , 1, 249-52	23.4	510
101	Ran induces spindle assembly by reversing the inhibitory effect of importin alpha on TPX2 activity. <i>Cell</i> , 2001 , 104, 83-93	56.2	496
100	TAP, the human homolog of Mex67p, mediates CTE-dependent RNA export from the nucleus. <i>Molecular Cell</i> , 1998 , 1, 649-59	17.6	490
99	Gln 63 of Rho is deamidated by Escherichia coli cytotoxic necrotizing factor-1. <i>Nature</i> , 1997 , 387, 725-9	50.4	465

98	APPL proteins link Rab5 to nuclear signal transduction via an endosomal compartment. <i>Cell</i> , 2004 , 116, 445-56	56.2	453
97	Chromatin-remodelling factor CHRAC contains the ATPases ISWI and topoisomerase II. <i>Nature</i> , 1997 , 388, 598-602	50.4	437
96	mRNA silencing in erythroid differentiation: hnRNP K and hnRNP E1 regulate 15-lipoxygenase translation from the 3' end. <i>Cell</i> , 1997 , 89, 597-606	56.2	434
95	Regulation of intracellular calcium by a signalling complex of IRAG, IP3 receptor and cGMP kinase Ibeta. <i>Nature</i> , 2000 , 404, 197-201	50.4	383
94	Rapid de novo peptide sequencing by a combination of nanoelectrospray, isotopic labeling and a quadrupole/time-of-flight mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 1997 , 11, 1015-24	2.2	373
93	The enterotoxin from <i>Clostridium difficile</i> (ToxA) monoglucosylates the Rho proteins. <i>Journal of Biological Chemistry</i> , 1995 , 270, 13932-6	5.4	369
92	The p120 catenin partner Kaiso is a DNA methylation-dependent transcriptional repressor. <i>Genes and Development</i> , 2001 , 15, 1613-8	12.6	359
91	Nuclear pore components are involved in the transcriptional regulation of dosage compensation in <i>Drosophila</i> . <i>Molecular Cell</i> , 2006 , 21, 811-23	17.6	331
90	The conserved Nup107-160 complex is critical for nuclear pore complex assembly. <i>Cell</i> , 2003 , 113, 195-206	56.2	321
89	TPX2, A novel xenopus MAP involved in spindle pole organization. <i>Journal of Cell Biology</i> , 2000 , 149, 1405-18	7.3	315
88	An enzymatic cascade of Rab5 effectors regulates phosphoinositide turnover in the endocytic pathway. <i>Journal of Cell Biology</i> , 2005 , 170, 607-18	7.3	309
87	Structural basis for activation of the titin kinase domain during myofibrillogenesis. <i>Nature</i> , 1998 , 395, 863-9	50.4	300
86	Reverse genetics in the mosquito <i>Anopheles gambiae</i> : targeted disruption of the Defensin gene. <i>EMBO Reports</i> , 2002 , 3, 852-6	6.5	298
85	Small nuclear ribonucleoprotein remodeling during catalytic activation of the spliceosome. <i>Science</i> , 2002 , 298, 2205-8	33.3	297
84	REF, an evolutionary conserved family of hnRNP-like proteins, interacts with TAP/Mex67p and participates in mRNA nuclear export. <i>Rna</i> , 2000 , 6, 638-50	5.8	296
83	Rabenosyn-5, a novel Rab5 effector, is complexed with hVPS45 and recruited to endosomes through a FYVE finger domain. <i>Journal of Cell Biology</i> , 2000 , 151, 601-12	7.3	293
82	A common core RNP structure shared between the small nucleolar box C/D RNPs and the spliceosomal U4 snRNP. <i>Cell</i> , 2000 , 103, 457-66	56.2	289
81	A Polycomb group protein complex with sequence-specific DNA-binding and selective methyl-lysine-binding activities. <i>Genes and Development</i> , 2006 , 20, 1110-22	12.6	287

80	Parent ion scans of unseparated peptide mixtures. <i>Analytical Chemistry</i> , 1996 , 68, 527-33	7.8	272
79	The C-terminal domain of TAP interacts with the nuclear pore complex and promotes export of specific CTE-bearing RNA substrates. <i>Rna</i> , 2000 , 6, 136-58	5.8	268
78	PHAX, a mediator of U snRNA nuclear export whose activity is regulated by phosphorylation. <i>Cell</i> , 2000 , 101, 187-98	56.2	266
77	Protein composition of human prespliceosomes isolated by a tobramycin affinity-selection method. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 16719-24	11.5	241
76	Activation of a novel calcium-dependent protein-tyrosine kinase. Correlation with c-Jun N-terminal kinase but not mitogen-activated protein kinase activation. <i>Journal of Biological Chemistry</i> , 1996 , 271, 29993-8	5.4	227
75	Pcl-PRC2 is needed to generate high levels of H3-K27 trimethylation at Polycomb target genes. <i>EMBO Journal</i> , 2007 , 26, 4078-88	13	208
74	Vesicular stomatitis virus matrix protein inhibits host cell gene expression by targeting the nucleoporin Nup98. <i>Molecular Cell</i> , 2000 , 6, 1243-52	17.6	208
73	HURP is part of a Ran-dependent complex involved in spindle formation. <i>Current Biology</i> , 2006 , 16, 743-54	3	202
72	The <i>S. cerevisiae</i> SET3 complex includes two histone deacetylases, Hos2 and Hst1, and is a meiotic-specific repressor of the sporulation gene program. <i>Genes and Development</i> , 2001 , 15, 2991-3004	12.6	199
71	The DExH/D box protein HEL/UAP56 is essential for mRNA nuclear export in <i>Drosophila</i> . <i>Current Biology</i> , 2001 , 11, 1716-21	6.3	196
70	Electrospray mass spectrometry for protein characterization. <i>Trends in Biochemical Sciences</i> , 1995 , 20, 219-24	10.3	193
69	A strategy for identifying gel-separated proteins in sequence databases by MS alone. <i>Biochemical Society Transactions</i> , 1996 , 24, 893-6	5.1	192
68	RanGTP mediates nuclear pore complex assembly. <i>Nature</i> , 2003 , 424, 689-94	50.4	185
67	Characterization of novel SF3b and 17S U2 snRNP proteins, including a human Prp5p homologue and an SF3b DEAD-box protein. <i>EMBO Journal</i> , 2002 , 21, 4978-88	13	184
66	RanGTP-regulated interactions of CRM1 with nucleoporins and a shuttling DEAD-box helicase. <i>Molecular and Cellular Biology</i> , 1999 , 19, 6276-85	4.8	183
65	Sample preparation methods for mass spectrometric peptide mapping directly from 2-DE gels. <i>Methods in Molecular Biology</i> , 1999 , 112, 513-30	1.4	181
64	An efficient protein complex purification method for functional proteomics in higher eukaryotes. <i>Nature Biotechnology</i> , 2003 , 21, 89-92	44.5	173
63	Genome-wide analysis of mRNAs regulated by the THO complex in <i>Drosophila melanogaster</i> . <i>Nature Structural and Molecular Biology</i> , 2004 , 11, 558-66	17.6	172

62	DMSO enhances electrospray response, boosting sensitivity of proteomic experiments. <i>Nature Methods</i> , 2013 , 10, 989-91	21.6	170
61	The Rab5 effector Rabankyrin-5 regulates and coordinates different endocytic mechanisms. <i>PLoS Biology</i> , 2004 , 2, E261	9.7	162
60	A subset of human 35S U5 proteins, including Prp19, function prior to catalytic step 1 of splicing. <i>EMBO Journal</i> , 2004 , 23, 2381-91	13	145
59	Principles of electrospray ionization. <i>Molecular and Cellular Proteomics</i> , 2011 , 10, M111.009407	7.6	141
58	RBM5/Luca-15/H37 regulates Fas alternative splice site pairing after exon definition. <i>Molecular Cell</i> , 2008 , 32, 81-95	17.6	131
57	Peptide sequencing by mass spectrometry for homology searches and cloning of genes. <i>The Protein Journal</i> , 1997 , 16, 481-90		115
56	IRAG mediates NO/cGMP-dependent inhibition of platelet aggregation and thrombus formation. <i>Blood</i> , 2007 , 109, 552-9	2.2	114
55	Legionella pneumophila glucosyltransferase inhibits host elongation factor 1A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 16953-8	11.5	108
54	Clostridium novyi alpha-toxin-catalyzed incorporation of GlcNAc into Rho subfamily proteins. <i>Journal of Biological Chemistry</i> , 1996 , 271, 25173-7	5.4	103
53	NuSAP, a mitotic RanGTP target that stabilizes and cross-links microtubules. <i>Molecular Biology of the Cell</i> , 2006 , 17, 2646-60	3.5	93
52	Nup155 regulates nuclear envelope and nuclear pore complex formation in nematodes and vertebrates. <i>EMBO Journal</i> , 2005 , 24, 3519-31	13	89
51	De Novo peptide sequencing by nanoelectrospray tandem mass spectrometry using triple quadrupole and quadrupole/time-of-flight instruments. <i>Methods in Molecular Biology</i> , 2000 , 146, 1-16	1.4	88
50	The DEXD/H-box RNA helicase RHII/Gu is a co-factor for c-Jun-activated transcription. <i>EMBO Journal</i> , 2002 , 21, 451-60	13	87
49	Mass spectrometric analysis of nitric oxide-modified caspase-3. <i>Journal of Biological Chemistry</i> , 1999 , 274, 20931-6	5.4	85
48	Identification of 40LoVe, a Xenopus hnRNP D family protein involved in localizing a TGF-beta-related mRNA during oogenesis. <i>Developmental Cell</i> , 2005 , 8, 505-15	10.2	77
47	Preprocessing of tandem mass spectrometric data to support automatic protein identification. <i>Proteomics</i> , 2003 , 3, 1597-610	4.8	77
46	MOF-regulated acetylation of MSL-3 in the Drosophila dosage compensation complex. <i>Molecular Cell</i> , 2003 , 11, 1265-77	17.6	73
45	"De novo" sequencing of peptides recovered from in-gel digested proteins by nanoelectrospray tandem mass spectrometry. <i>Molecular Biotechnology</i> , 2002 , 20, 107-18	3	72

44	Costimulation induced phosphorylation of L-plastin facilitates surface transport of the T cell activation molecules CD69 and CD25. <i>European Journal of Immunology</i> , 2007 , 37, 649-62	6.1	71
43	Biochemical function of female-lethal (2)D/WilmsRtumor suppressor-1-associated proteins in alternative pre-mRNA splicing. <i>Journal of Biological Chemistry</i> , 2003 , 278, 3040-7	5.4	71
42	Cdk11 is a RanGTP-dependent microtubule stabilization factor that regulates spindle assembly rate. <i>Journal of Cell Biology</i> , 2008 , 180, 867-75	7.3	70
41	Quantitative proteomics in biological research. <i>Proteomics</i> , 2009 , 9, 4590-605	4.8	69
40	Importin alpha associates with membranes and participates in nuclear envelope assembly in vitro. <i>EMBO Journal</i> , 2004 , 23, 1526-35	13	69
39	Phosphorylation and structure-based functional studies reveal a positive and a negative role for the activation loop of the c-Abl tyrosine kinase. <i>Oncogene</i> , 2001 , 20, 8075-84	9.2	69
38	Sex-lethal imparts a sex-specific function to UNR by recruiting it to the msl-2 mRNA 3RUTR: translational repression for dosage compensation. <i>Genes and Development</i> , 2006 , 20, 368-79	12.6	67
37	Splicing factors stimulate polyadenylation via USEs at non-canonical 3Rend formation signals. <i>EMBO Journal</i> , 2007 , 26, 2658-69	13	65
36	Hsp90 enables Ctf13p/Skp1p to nucleate the budding yeast kinetochore. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 8585-90	11.5	58
35	The modified base J is the target for a novel DNA-binding protein in kinetoplastid protozoans. <i>EMBO Journal</i> , 1999 , 18, 6573-81	13	58
34	The sec14 homology module of neurofibromin binds cellular glycerophospholipids: mass spectrometry and structure of a lipid complex. <i>Journal of Molecular Biology</i> , 2007 , 366, 551-62	6.5	57
33	p38 MAPK controls prothrombin expression by regulated RNA 3Rend processing. <i>Molecular Cell</i> , 2011 , 41, 298-310	17.6	56
32	Peptide sequencing of 2-DE gel-isolated proteins by nanoelectrospray tandem mass spectrometry. <i>Methods in Molecular Biology</i> , 1999 , 112, 571-88	1.4	56
31	Nano electrospray combined with a quadrupole ion trap for the analysis of peptides and protein digests. <i>Journal of the American Society for Mass Spectrometry</i> , 1996 , 7, 150-6	3.5	56
30	Prothymosin alpha associates with the oncoprotein SET and is involved in chromatin decondensation. <i>FEBS Letters</i> , 2004 , 577, 496-500	3.8	44
29	Building the stator of the yeast vacuolar-ATPase: specific interaction between subunits E and G. <i>Journal of Biological Chemistry</i> , 2004 , 279, 40670-6	5.4	42
28	Combination of peptide OFFGEL fractionation and label-free quantitation facilitated proteomics profiling of extraocular muscle. <i>Proteomics</i> , 2007 , 7, 3404-16	4.8	41
27	Noise filtering techniques for electrospray quadrupole time of flight mass spectra. <i>Journal of the American Society for Mass Spectrometry</i> , 2003 , 14, 766-76	3.5	39

26	Rapid protein sequencing by tandem mass spectrometry and cDNA cloning of p20-CGGBP. A novel protein that binds to the unstable triplet repeat 5Rd(CGG)n-3Rn the human FMR1 gene. <i>Journal of Biological Chemistry</i> , 1997 , 272, 16761-8	5.4	38
25	Silicone/graphite coating for on-target desalting and improved peptide mapping performance of matrix-assisted laser desorption/ionization-mass spectrometry targets in proteomic experiments. <i>Proteomics</i> , 2005 , 5, 1460-71	4.8	37
24	Automated de novo sequencing of proteins using the differential scanning technique. <i>Proteomics</i> , 2001 , 1, 668-82	4.8	37
23	Proteomic characterisation of neuronal sphingolipid-cholesterol microdomains: role in plasminogen activation. <i>Brain Research</i> , 2003 , 987, 107-16	3.7	36
22	Quantitative proteomics profiling of sarcomere associated proteins in limb and extraocular muscle allotypes. <i>Molecular and Cellular Proteomics</i> , 2007 , 6, 728-37	7.6	33
21	Structural basis for targeting the chromatin repressor Sfm1b to Polycomb response elements. <i>Genes and Development</i> , 2013 , 27, 2367-79	12.6	32
20	Nanoelectrospray-based detection and sequencing of substoichiometric amounts of phosphopeptides in complex mixtures. <i>Journal of Mass Spectrometry</i> , 2003 , 38, 131-7	2.2	32
19	Bioactive hydrolysates from bovine blood globulins: Generation, characterisation, and in silico prediction of toxicity and allergenicity. <i>Journal of Functional Foods</i> , 2016 , 24, 142-155	5.1	32
18	Complexes between the nonsense-mediated mRNA decay pathway factor human upf1 (up-frameshift protein 1) and essential nonsense-mediated mRNA decay factors in HeLa cells. <i>Biochemical Journal</i> , 2003 , 373, 775-83	3.8	30
17	A general precursor ion-like scanning mode on quadrupole-TOF instruments compatible with chromatographic separation. <i>Proteomics</i> , 2006 , 6, 41-53	4.8	28
16	Geminin cleavage during apoptosis by caspase-3 alters its binding ability to the SWI/SNF subunit Brahma. <i>Journal of Biological Chemistry</i> , 2007 , 282, 9346-9357	5.4	21
15	A compartmentalized phosphorylation/dephosphorylation system that regulates U snRNA export from the nucleus. <i>Molecular and Cellular Biology</i> , 2008 , 28, 487-97	4.8	20
14	Mass spectrometric analysis of proteins. <i>Advances in Protein Chemistry</i> , 2000 , 54, 1-30		20
13	Translation initiation by the c-myc mRNA internal ribosome entry sequence and the poly(A) tail. <i>Rna</i> , 2008 , 14, 1579-89	5.8	19
12	A homologue of cysteine-rich secretory proteins induces premature degradation of vitelline envelopes and hatching of <i>Xenopus laevis</i> embryos. <i>Mechanisms of Development</i> , 2003 , 120, 937-48	1.7	19
11	Lysine and polyamines are substrates for transglutamination of Rho by the Bordetella dermonecrotic toxin. <i>Infection and Immunity</i> , 2001 , 69, 7663-70	3.7	19
10	New carbamate supports for the preparation of 3'-amino-modified oligonucleotides. <i>Bioorganic and Medicinal Chemistry</i> , 1996 , 4, 1649-58	3.4	19
9	Matrix-assisted laser desorption/ionization directed nano-electrospray ionization tandem mass spectrometric analysis for protein identification. <i>Rapid Communications in Mass Spectrometry</i> , 2003 , 17, 1825-34	2.2	18

8	Preparation of oligonucleotide-dexamethasone conjugates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1995 , 5, 1577-1580	2.9	18
7	Lipid Discovery by Combinatorial Screening and Untargeted LC-MS/MS. <i>Scientific Reports</i> , 2016 , 6, 27920	4.9	8
6	Molecular cloning and N-terminal analysis of bovine cystatin C. Identification of a full-length N-terminal region. <i>BBA - Proteins and Proteomics</i> , 1997 , 1343, 203-10		7
5	The application of robotics and mass spectrometry to the characterisation of the <i>Drosophila melanogaster</i> indirect flight muscle proteome. <i>International Journal of Peptide Research and Therapeutics</i> , 1997 , 4, 57-65		7
4	Applications of sustained off-resonance irradiation (SORI) and quadrupolar excitation axialization (QEA) for the characterization of biomolecules by Fourier-transform mass spectrometry (FTMS). <i>Biochemical Society Transactions</i> , 1996 , 24, 943-7	5.1	6
3	The role of RNA interference in drug target validation: Application to Hepatitis C	2005 , 318-330	1
2	Peptide Sequencing by Nanoelectrospray Tandem Mass Spectrometry. <i>Springer Protocols</i> , 2009 , 1095-1115		5
1	The Physiology of Prothrombin Gene Expression Integrates RNA Polyadenylation and Splicing in a Novel Regulatable 3' RNP-Complex.. <i>Blood</i> , 2006 , 108, 1601-1601	2.2	