

W Hayes Mcdonald

List of Publications by Year in descending order

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106
papers

12,501
citations

38738

50
h-index

26610

107
g-index

110
all docs

110
docs citations

110
times ranked

15635
citing authors

#	ARTICLE	IF	CITATIONS
1	DTASelect and Contrast: Tools for Assembling and Comparing Protein Identifications from Shotgun Proteomics. <i>Journal of Proteome Research</i> , 2002, 1, 21-26.	3.7	1,327
2	Phytophthora Genome Sequences Uncover Evolutionary Origins and Mechanisms of Pathogenesis. <i>Science</i> , 2006, 313, 1261-1266.	12.6	1,059
3	Role of Rpn11 Metalloprotease in Deubiquitination and Degradation by the 26S Proteasome. <i>Science</i> , 2002, 298, 611-615.	12.6	919
4	Sirt3-Mediated Deacetylation of Evolutionarily Conserved Lysine 122 Regulates MnSOD Activity in Response to Stress. <i>Molecular Cell</i> , 2010, 40, 893-904.	9.7	794
5	Shotgun identification of protein modifications from protein complexes and lens tissue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 7900-7905.	7.1	571
6	Mus81-Eme1 Are Essential Components of a Holliday Junction Resolvase. <i>Cell</i> , 2001, 107, 537-548.	28.9	501
7	Cln3 Activates G1-Specific Transcription via Phosphorylation of the SBF Bound Repressor Whi5. <i>Cell</i> , 2004, 117, 887-898.	28.9	373
8	MS1, MS2, and SQT—three unified, compact, and easily parsed file formats for the storage of shotgun proteomic spectra and identifications. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 2162-2168.	1.5	350
9	Shotgun Proteomics and Biomarker Discovery. <i>Disease Markers</i> , 2002, 18, 99-105.	1.3	299
10	Assigning Function to Yeast Proteins by Integration of Technologies. <i>Molecular Cell</i> , 2003, 12, 1353-1365.	9.7	248
11	Identification of Proteins at Active, Stalled, and Collapsed Replication Forks Using Isolation of Proteins on Nascent DNA (iPOND) Coupled with Mass Spectrometry. <i>Journal of Biological Chemistry</i> , 2013, 288, 31458-31467.	3.4	202
12	Tea4p Links Microtubule Plus Ends with the Formin For3p in the Establishment of Cell Polarity. <i>Developmental Cell</i> , 2005, 8, 479-491.	7.0	201
13	Swi1 and Swi3 Are Components of a Replication Fork Protection Complex in Fission Yeast. <i>Molecular and Cellular Biology</i> , 2004, 24, 8342-8355.	2.3	194
14	Proteomics Analysis Reveals Stable Multiprotein Complexes in Both Fission and Budding Yeasts Containing Myb-Related Cdc5p/Cef1p, Novel Pre-mRNA Splicing Factors, and snRNAs. <i>Molecular and Cellular Biology</i> , 2002, 22, 2011-2024.	2.3	193
15	Azospirillum Genomes Reveal Transition of Bacteria from Aquatic to Terrestrial Environments. <i>PLoS Genetics</i> , 2011, 7, e1002430.	3.5	191
16	Automatic Quality Assessment of Peptide Tandem Mass Spectra. <i>Bioinformatics</i> , 2004, 20, i49-i54.	4.1	181
17	<i>Staphylococcus aureus</i> LukAB cytotoxin kills human neutrophils by targeting the CD11b subunit of the integrin Mac-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10794-10799.	7.1	180
18	The Evolutionary Imprint of Domestication on Genome Variation and Function of the Filamentous Fungus <i>Aspergillus oryzae</i> . <i>Current Biology</i> , 2012, 22, 1403-1409.	3.9	177

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19	Carcinoma and stromal enzyme activity profiles associated with breast tumor growth in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13756-13761.	7.1	174
20	Proteolysis-independent regulation of the transcription factor Met4 by a single Lys 48-linked ubiquitin chain. Nature Cell Biology, 2004, 6, 634-641.	10.3	146
21	Helicobacter pylori Exploits a Unique Repertoire of Type IV Secretion System Components for Pilus Assembly at the Bacteria-Host Cell Interface. PLoS Pathogens, 2011, 7, e1002237.	4.7	144
22	Vectors and gene targeting modules for tandem affinity purification in Schizosaccharomyces pombe. Yeast, 2001, 18, 657-662.	1.7	139
23	A unique covalent bond in basement membrane is a primordial innovation for tissue evolution. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 331-336.	7.1	138
24	Cid13 Is a Cytoplasmic Poly(A) Polymerase that Regulates Ribonucleotide Reductase mRNA. Cell, 2002, 109, 563-573.	28.9	130
25	Applicability of Tandem Affinity Purification MudPIT to Pathway Proteomics in Yeast. Molecular and Cellular Proteomics, 2004, 3, 226-237.	3.8	130
26	The Nse5-Nse6 Dimer Mediates DNA Repair Roles of the Smc5-Smc6 Complex. Molecular and Cellular Biology, 2006, 26, 1617-1630.	2.3	128
27	<i>Staphylococcus aureus</i> Fur Regulates the Expression of Virulence Factors That Contribute to the Pathogenesis of Pneumonia. Infection and Immunity, 2010, 78, 1618-1628.	2.2	127
28	Constraining G1-Specific Transcription to Late G1 Phase: The MBF-Associated Corepressor Nrm1 Acts via Negative Feedback. Molecular Cell, 2006, 23, 483-496.	9.7	121
29	Nse1, Nse2, and a Novel Subunit of the Smc5-Smc6 Complex, Nse3, Play a Crucial Role in Meiosis. Molecular Biology of the Cell, 2004, 15, 4866-4876.	2.1	118
30	Dephosphorylation of F-BAR Protein Cdc15 Modulates Its Conformation and Stimulates Its Scaffolding Activity at the Cell Division Site. Molecular Cell, 2010, 39, 86-99.	9.7	118
31	Dynamics of the peroxisomal import cycle of PpPex20p: Ubiquitin-dependent localization and regulation. Journal of Cell Biology, 2006, 172, 67-78.	5.2	115
32	Myb-Related Fission Yeast cdc5p Is a Component of a 40S snRNP-Containing Complex and Is Essential for Pre-mRNA Splicing. Molecular and Cellular Biology, 1999, 19, 5352-5362.	2.3	114
33	Proteomic Characterization of the Chlamydomonas reinhardtii Chloroplast Ribosome. Journal of Biological Chemistry, 2003, 278, 33774-33785.	3.4	108
34	Novel Essential DNA Repair Proteins Nse1 and Nse2 Are Subunits of the Fission Yeast Smc5-Smc6 Complex. Journal of Biological Chemistry, 2003, 278, 45460-45467.	3.4	106
35	Molecular and Structural Analysis of the Helicobacter pylori <i>cag</i> Type IV Secretion System Core Complex. MBio, 2016, 7, e02001-15.	4.1	102
36	ProRata: A Quantitative Proteomics Program for Accurate Protein Abundance Ratio Estimation with Confidence Interval Evaluation. Analytical Chemistry, 2006, 78, 7121-7131.	6.5	97

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37	Exocyst dynamics during vesicle tethering and fusion. <i>Nature Communications</i> , 2018, 9, 5140.	12.8	96
38	The Clp1/Cdc14 phosphatase contributes to the robustness of cytokinesis by association with anillin-related Mid1. <i>Journal of Cell Biology</i> , 2008, 181, 79-88.	5.2	88
39	Replication Checkpoint Kinase Cds1 Regulates Recombinational Repair Protein Rad60. <i>Molecular and Cellular Biology</i> , 2003, 23, 5939-5946.	2.3	86
40	Phosphorylation of Rad55 on Serines 2, 8, and 14 Is Required for Efficient Homologous Recombination in the Recovery of Stalled Replication Forks. <i>Molecular and Cellular Biology</i> , 2006, 26, 8396-8409.	2.3	79
41	Proteomic Characterization of the Small Subunit of <i>Chlamydomonas reinhardtii</i> Chloroplast Ribosome. <i>Plant Cell</i> , 2002, 14, 2957-2974.	6.6	78
42	Iron Toxicity in the Retina Requires Alu RNA and the NLRP3 Inflammasome. <i>Cell Reports</i> , 2015, 11, 1686-1693.	6.4	78
43	P-REX1 creates a positive feedback loop to activate growth factor receptor, PI3K/AKT and MEK/ERK signaling in breast cancer. <i>Oncogene</i> , 2015, 34, 3968-3976.	5.9	76
44	Protein Disulfide Isomerase Serves as a Molecular Chaperone to Maintain Estrogen Receptor α Structure and Function. <i>Molecular Endocrinology</i> , 2006, 20, 1982-1995.	3.7	70
45	Determination and Comparison of the Baseline Proteomes of the Versatile Microbe <i>Rhodospirillum rubrum</i> under Its Major Metabolic States. <i>Journal of Proteome Research</i> , 2006, 5, 287-298.	3.7	69
46	Shotgun proteomics: Identification of unique protein profiles of apoptotic bodies from biliary epithelial cells. <i>Hepatology</i> , 2014, 60, 1314-1323.	7.3	68
47	Analysis of Surface-Exposed Outer Membrane Proteins in <i>Helicobacter pylori</i> . <i>Journal of Bacteriology</i> , 2014, 196, 2455-2471.	2.2	65
48	RNA-binding protein Csx1 mediates global control of gene expression in response to oxidative stress. <i>EMBO Journal</i> , 2003, 22, 6256-6266.	7.8	64
49	Discovery of Widespread Host Protein Interactions with the Pre-replicated Genome of CHIKV Using VIR-CLASP. <i>Molecular Cell</i> , 2020, 78, 624-640.e7.	9.7	64
50	MS2Grouper: Group assessment and synthetic replacement of duplicate proteomic tandem mass spectra. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 1250-1261.	2.8	58
51	Shotgun proteomics: integrating technologies to answer biological questions. <i>Current Opinion in Molecular Therapeutics</i> , 2003, 5, 302-9.	2.8	53
52	Phospho-Regulation of the Cdc14/Clp1 Phosphatase Delays Late Mitotic Events in <i>S. pombe</i> . <i>Developmental Cell</i> , 2006, 11, 423-430.	7.0	51
53	Ppc89 Links Multiple Proteins, Including the Septation Initiation Network, to the Core of the Fission Yeast Spindle-Pole Body. <i>Molecular Biology of the Cell</i> , 2006, 17, 3793-3805.	2.1	51
54	Glucose Autoxidation Induces Functional Damage to Proteins via Modification of Critical Arginine Residues. <i>Biochemistry</i> , 2011, 50, 6102-6112.	2.5	51

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55	Proteomic Tools for Cell Biology. <i>Traffic</i> , 2000, 1, 747-754.	2.7	42
56	Cross-species Global Proteomics Reveals Conserved and Unique Processes in <i>Phytophthora sojae</i> and <i>Phytophthora ramorum</i> . <i>Molecular and Cellular Proteomics</i> , 2008, 7, 1501-1516.	3.8	42
57	Long Isoform Mouse Selenoprotein P (Sepp1) Supplies Rat Myoblast L8 Cells with Selenium via Endocytosis Mediated by Heparin Binding Properties and Apolipoprotein E Receptor-2 (ApoER2). <i>Journal of Biological Chemistry</i> , 2012, 287, 28717-28726.	3.4	42
58	Robust Estimation of Peptide Abundance Ratios and Rigorous Scoring of Their Variability and Bias in Quantitative Shotgun Proteomics. <i>Analytical Chemistry</i> , 2006, 78, 7110-7120.	6.5	40
59	Sepp1UF forms are N-terminal selenoprotein P truncations that have peroxidase activity when coupled with thioredoxin reductase-1. <i>Free Radical Biology and Medicine</i> , 2014, 69, 67-76.	2.9	37
60	Charting the Protein Complexome in Yeast by Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2002, 1, 3-10.	3.8	36
61	Novel Method for Noninvasive Sampling of the Distal Airspace in Acute Respiratory Distress Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, 1027-1035.	5.6	35
62	Characterization of the MDSC Proteome Associated with Metastatic Murine Mammary Tumors Using Label-Free Mass Spectrometry and Shotgun Proteomics. <i>PLoS ONE</i> , 2011, 6, e22446.	2.5	35
63	<i>Bacillus cereus</i> Phosphopentomutase Is an Alkaline Phosphatase Family Member That Exhibits an Altered Entry Point into the Catalytic Cycle. <i>Journal of Biological Chemistry</i> , 2011, 286, 8043-8054.	3.4	34
64	Obesity and altered glucose metabolism impact HDL composition in CETP transgenic mice: a role for ovarian hormones. <i>Journal of Lipid Research</i> , 2012, 53, 379-389.	4.2	34
65	Alteration of the <i>Helicobacter pylori</i> membrane proteome in response to changes in environmental salt concentration. <i>Proteomics - Clinical Applications</i> , 2015, 9, 1021-1034.	1.6	34
66	Expressed Peptide Tags: An Additional Layer of Data for Genome Annotation. <i>Journal of Proteome Research</i> , 2006, 5, 3048-3058.	3.7	32
67	Cell Cycle-dependent Phosphorylation of the DNA Polymerase Epsilon Subunit, Dpb2, by the Cdc28 Cyclin-dependent Protein Kinase. <i>Journal of Biological Chemistry</i> , 2004, 279, 14245-14255.	3.4	30
68	Ubiquitin turnover and endocytic trafficking in yeast are regulated by Ser57 phosphorylation of ubiquitin. <i>ELife</i> , 2017, 6, .	6.0	29
69	Dual-tagging system for the affinity purification of mammalian protein complexes. <i>BioTechniques</i> , 2007, 43, 296-302.	1.8	27
70	The SBF- and MBF-associated Protein Msa1 Is Required for Proper Timing of G1-specific Transcription in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 6040-6049.	3.4	27
71	Therapeutic alphavirus cross-reactive E1 human antibodies inhibit viral egress. <i>Cell</i> , 2021, 184, 4430-4446.e22.	28.9	25
72	A General System for Studying Protein-Protein Interactions in Gram-Negative Bacteria. <i>Journal of Proteome Research</i> , 2008, 7, 3319-3328.	3.7	24

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73	DDR1 contributes to kidney inflammation and fibrosis by promoting the phosphorylation of BCR and STAT3. <i>JCI Insight</i> , 2022, 7, .	5.0	24
74	The Novel Chemical Entity YTR107 Inhibits Recruitment of Nucleophosmin to Sites of DNA Damage, Suppressing Repair of DNA Double-Strand Breaks and Enhancing Radiosensitization. <i>Clinical Cancer Research</i> , 2011, 17, 6490-6499.	7.0	23
75	Growth phase-dependent composition of the <i>Helicobacter pylori</i> exoproteome. <i>Journal of Proteomics</i> , 2016, 130, 94-107.	2.4	22
76	Bacterial Energetic Requirements for <i>Helicobacter pylori</i> Cag Type IV Secretion System-Dependent Alterations in Gastric Epithelial Cells. <i>Infection and Immunity</i> , 2020, 88, .	2.2	22
77	Cip1 and Cip2 Are Novel RNA-Recognition-Motif Proteins That Counteract Csx1 Function during Oxidative Stress. <i>Molecular Biology of the Cell</i> , 2006, 17, 1176-1183.	2.1	21
78	Accumulation of isolevuglandin-modified protein in normal and fibrotic lung. <i>Scientific Reports</i> , 2016, 6, 24919.	3.3	21
79	Geometric Restraint Drives On- and Off-pathway Catalysis by the <i>Escherichia coli</i> Menaquinol:Fumarate Reductase. <i>Journal of Biological Chemistry</i> , 2011, 286, 3047-3056.	3.4	20
80	Proteome Informatics Research Group (iPRG)_2012: A Study on Detecting Modified Peptides in a Complex Mixture. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 360-371.	3.8	20
81	Evaluation of Affinity-Tagged Protein Expression Strategies Using Local and Global Isotope Ratio Measurements. <i>Journal of Proteome Research</i> , 2009, 8, 3675-3688.	3.7	18
82	Binding of the Covalent Flavin Assembly Factor to the Flavoprotein Subunit of Complex II. <i>Journal of Biological Chemistry</i> , 2016, 291, 2904-2916.	3.4	18
83	Short Forms of Ste20-related Proline/Alanine-rich Kinase (SPAK) in the Kidney Are Created by Aspartyl Aminopeptidase (Dnpep)-mediated Proteolytic Cleavage. <i>Journal of Biological Chemistry</i> , 2014, 289, 29273-29284.	3.4	17
84	The in vivo specificity of synaptic G \hat{I}^2 and G \hat{I}^3 subunits to the $\hat{I}\pm 2a$ adrenergic receptor at CNS synapses. <i>Scientific Reports</i> , 2019, 9, 1718.	3.3	17
85	Delineation of the pH-Responsive Regulon Controlled by the <i>Helicobacter pylori</i> ArsRS Two-Component System. <i>Infection and Immunity</i> , 2021, 89, .	2.2	17
86	Global Phosphotyrosine Proteomics Identifies PKC \hat{I} as a Marker of Responsiveness to Src Inhibition in Colorectal Cancer. <i>PLoS ONE</i> , 2013, 8, e80207.	2.5	15
87	Electrophilic Adduction of Ubiquitin Activating Enzyme E1 by <i>N,N</i> -Diethylthiocarbamate Inhibits Ubiquitin Activation and Is Accompanied by Striatal Injury in the Rat. <i>Chemical Research in Toxicology</i> , 2012, 25, 2310-2321.	3.3	14
88	Quantitative Multiple-Reaction Monitoring Proteomic Analysis of G \hat{I}^2 and G \hat{I}^3 Subunits in C57Bl6/J Brain Synaptosomes. <i>Biochemistry</i> , 2017, 56, 5405-5416.	2.5	14
89	Effect of environmental salt concentration on the <i>Helicobacter pylori</i> exoproteome. <i>Journal of Proteomics</i> , 2019, 202, 103374.	2.4	14
90	Use of High Specific Activity StarFire \hat{c} Oligonucleotide Probes to Visualize Low-Abundance Pre-mRNA Splicing Intermediates in <i>S. pombe</i> . <i>BioTechniques</i> , 2000, 29, 892-897.	1.8	13

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91	Isolation of an essential <i>Schizosaccharomyces pombe</i> gene, <i>prp31+</i> , that links splicing and meiosis. <i>Nucleic Acids Research</i> , 2000, 28, 2214-2220.	14.5	12
92	Statistically Inferring Protein-Protein Associations with Affinity Isolation LC-MS/MS Assays. <i>Journal of Proteome Research</i> , 2007, 6, 3788-3795.	3.7	11
93	Modulation of the Structure, Catalytic Activity, and Fidelity of African Swine Fever Virus DNA Polymerase X by a Reversible Disulfide Switch. <i>Journal of Biological Chemistry</i> , 2009, 284, 18434-18444.	3.4	11
94	Chromosomal abnormalities and molecular landscape of metastasizing mucinous salivary adenocarcinoma. <i>Oral Oncology</i> , 2017, 66, 38-45.	1.5	11
95	Dnt1 acts as a mitotic inhibitor of the spindle checkpoint protein <i>dma1</i> in fission yeast. <i>Molecular Biology of the Cell</i> , 2012, 23, 3348-3356.	2.1	10
96	LMO2 Oncoprotein Stability in T-Cell Leukemia Requires Direct LDB1 Binding. <i>Molecular and Cellular Biology</i> , 2016, 36, 488-506.	2.3	9
97	Negative regulation of <i>Candida glabrata</i> Pdr1 by the deubiquitinase subunit Bre5 occurs in a ubiquitin independent manner. <i>Molecular Microbiology</i> , 2018, 110, 309-323.	2.5	9
98	Antagonistic roles for the ubiquitin ligase <i>Asr1</i> and the ubiquitin-specific protease <i>Ubp3</i> in subtelomeric gene silencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1309-1314.	7.1	6
99	Structure and activation mechanism of the yeast RNA Pol II CTD kinase CTDK-1 complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	6
100	The 15-Amino Acid Repeat Region of Adenomatous Polyposis Coli Is Intrinsically Disordered and Retains Conformational Flexibility upon Binding β -Catenin. <i>Biochemistry</i> , 2020, 59, 4039-4050.	2.5	5
101	Analysis of the Role of Phosphorylation in Fission Yeast <i>Cdc13p</i> /CyclinB Function. <i>Journal of Biological Chemistry</i> , 2005, 280, 14591-14596.	3.4	3
102	An analysis pipeline for the inference of protein-protein interaction networks. <i>International Journal of Data Mining and Bioinformatics</i> , 2009, 3, 409.	0.1	3
103	Supporting data for analysis of the <i>Helicobacter pylori</i> exoproteome. <i>Data in Brief</i> , 2015, 5, 560-563.	1.0	3
104	Specificities of α subunits for the SNARE complex before and after stimulation of β -adrenergic receptors. <i>Science Signaling</i> , 2021, 14, eabc4970.	3.6	2
105	ApoER2-Mediated Endocytosis of Long-Form Selenoprotein P (Sepp1) Supplies Skeletal Muscle Cells with Selenium. <i>FASEB Journal</i> , 2012, 26, 241.4.	0.5	0
106	Abstract PR05: P-REX1 creates a positive feedback loop to activate growth factor receptor/PI3K signaling. , 2013, , .		0