

# W Hayes Mcdonald

## List of Publications by Citations

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105  
papers

10,596  
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50  
h-index

102  
g-index

110  
ext. papers

11,741  
ext. citations

9.1  
avg, IF

5.69  
L-index

#	Paper	IF	Citations
105	DTASelect and Contrast: tools for assembling and comparing protein identifications from shotgun proteomics. <i>Journal of Proteome Research</i> , <b>2002</b> , 1, 21-6	5.6	1156
104	Phytophthora genome sequences uncover evolutionary origins and mechanisms of pathogenesis. <i>Science</i> , <b>2006</b> , 313, 1261-6	33.3	827
103	Role of Rpn11 metalloprotease in deubiquitination and degradation by the 26S proteasome. <i>Science</i> , <b>2002</b> , 298, 611-5	33.3	822
102	Sirt3-mediated deacetylation of evolutionarily conserved lysine 122 regulates MnSOD activity in response to stress. <i>Molecular Cell</i> , <b>2010</b> , 40, 893-904	17.6	670
101	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> , <b>2002</b> , 99, 7900-5	11.5	525
100	Mus81-Eme1 are essential components of a Holliday junction resolvase. <i>Cell</i> , <b>2001</b> , 107, 537-48	56.2	450
99	Cln3 activates G1-specific transcription via phosphorylation of the SBF bound repressor Whi5. <i>Cell</i> , <b>2004</b> , 117, 887-98	56.2	302
98	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> , <b>2004</b> , 18, 2162-8	2.2	295
97	Shotgun proteomics and biomarker discovery. <i>Disease Markers</i> , <b>2002</b> , 18, 99-105	3.2	263
96	Assigning function to yeast proteins by integration of technologies. <i>Molecular Cell</i> , <b>2003</b> , 12, 1353-65	17.6	236
95	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> , <b>2002</b> , 22, 2011-24	4.8	179
94	Tea4p links microtubule plus ends with the formin for3p in the establishment of cell polarity. <i>Developmental Cell</i> , <b>2005</b> , 8, 479-91	10.2	173
93	Swi1 and Swi3 are components of a replication fork protection complex in fission yeast. <i>Molecular and Cellular Biology</i> , <b>2004</b> , 24, 8342-55	4.8	171
92	Carcinoma and stromal enzyme activity profiles associated with breast tumor growth in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 13756-61	11.5	164
91	Azospirillum genomes reveal transition of bacteria from aquatic to terrestrial environments. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002430	6	160
90	Automatic quality assessment of peptide tandem mass spectra. <i>Bioinformatics</i> , <b>2004</b> , 20 Suppl 1, i49-54	7.2	158
89	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> , <b>2013</b> , 288, 31458-67	5.4	140

88	Staphylococcus aureus 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> , <b>2013</b> , 110, 10794-9	11.5	139
87	Vectors and gene targeting modules for tandem affinity purification in <i>Schizosaccharomyces pombe</i> . <i>Yeast</i> , <b>2001</b> , 18, 657-62	3.4	132
86	<i>Helicobacter pylori</i> exploits a unique repertoire of type IV secretion system components for pilus assembly at the bacteria-host cell interface. <i>PLoS Pathogens</i> , <b>2011</b> , 7, e1002237	7.6	128
85	Proteolysis-independent regulation of the transcription factor Met4 by a single Lys 48-linked ubiquitin chain. <i>Nature Cell Biology</i> , <b>2004</b> , 6, 634-41	23.4	128
84	Cid13 is a cytoplasmic poly(A) polymerase that regulates ribonucleotide reductase mRNA. <i>Cell</i> , <b>2002</b> , 109, 563-73	56.2	125
83	The evolutionary imprint of domestication on genome variation and function of the filamentous fungus <i>Aspergillus oryzae</i> . <i>Current Biology</i> , <b>2012</b> , 22, 1403-9	6.3	122
82	Applicability of tandem affinity purification MudPIT to pathway proteomics in yeast. <i>Molecular and Cellular Proteomics</i> , <b>2004</b> , 3, 226-37	7.6	116
81	<i>Staphylococcus aureus</i> fur regulates the expression of virulence factors that contribute to the pathogenesis of pneumonia. <i>Infection and Immunity</i> , <b>2010</b> , 78, 1618-28	3.7	111
80	Myb-related fission yeast cdc5p is a component of a 40S snRNP-containing complex and is essential for pre-mRNA splicing. <i>Molecular and Cellular Biology</i> , <b>1999</b> , 19, 5352-62	4.8	110
79	The Nse5-Nse6 dimer mediates DNA repair roles of the Smc5-Smc6 complex. <i>Molecular and Cellular Biology</i> , <b>2006</b> , 26, 1617-30	4.8	109
78	Constraining G1-specific transcription to late G1 phase: the MBF-associated corepressor Nrm1 acts via negative feedback. <i>Molecular Cell</i> , <b>2006</b> , 23, 483-96	17.6	106
77	A unique covalent bond in basement membrane is a primordial innovation for tissue evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 331-6	11.5	105
76	Dynamics of the peroxisomal import cycle of PpPex20p: ubiquitin-dependent localization and regulation. <i>Journal of Cell Biology</i> , <b>2006</b> , 172, 67-78	7.3	104
75	Dephosphorylation of F-BAR protein Cdc15 modulates its conformation and stimulates its scaffolding activity at the cell division site. <i>Molecular Cell</i> , <b>2010</b> , 39, 86-99	17.6	103
74	Proteomic characterization of the <i>Chlamydomonas reinhardtii</i> chloroplast ribosome. Identification of proteins unique to the 70 S ribosome. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 33774-85	5.4	97
73	Nse1, Nse2, and a novel subunit of the Smc5-Smc6 complex, Nse3, play a crucial role in meiosis. <i>Molecular Biology of the Cell</i> , <b>2004</b> , 15, 4866-76	3.5	97
72	Novel essential DNA repair proteins Nse1 and Nse2 are subunits of the fission yeast Smc5-Smc6 complex. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 45460-7	5.4	88
71	Molecular and Structural Analysis of the <i>Helicobacter pylori</i> cag Type IV Secretion System Core Complex. <i>MBio</i> , <b>2016</b> , 7, e02001-15	7.8	86

70	ProRata: A quantitative proteomics program for accurate protein abundance ratio estimation with confidence interval evaluation. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 7121-31	7.8	86
69	Replication checkpoint kinase Cds1 regulates recombinational repair protein Rad60. <i>Molecular and Cellular Biology</i> , <b>2003</b> , 23, 5939-46	4.8	80
68	The Clp1/Cdc14 phosphatase contributes to the robustness of cytokinesis by association with anillin-related Mid1. <i>Journal of Cell Biology</i> , <b>2008</b> , 181, 79-88	7.3	79
67	Proteomic characterization of the small subunit of <i>Chlamydomonas reinhardtii</i> chloroplast ribosome: identification of a novel S1 domain-containing protein and unusually large orthologs of bacterial S2, S3, and S5. <i>Plant Cell</i> , <b>2002</b> , 14, 2957-74	11.6	74
66	Shotgun proteomics: identification of unique protein profiles of apoptotic bodies from biliary epithelial cells. <i>Hepatology</i> , <b>2014</b> , 60, 1314-23	11.2	64
65	Protein disulfide isomerase serves as a molecular chaperone to maintain estrogen receptor alpha structure and function. <i>Molecular Endocrinology</i> , <b>2006</b> , 20, 1982-95		64
64	Determination and comparison of the baseline proteomes of the versatile microbe <i>Rhodospseudomonas palustris</i> under its major metabolic states. <i>Journal of Proteome Research</i> , <b>2006</b> , 5, 287-98	5.6	64
63	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> , <b>2006</b> , 26, 8396-409	4.8	62
62	RNA-binding protein Csx1 mediates global control of gene expression in response to oxidative stress. <i>EMBO Journal</i> , <b>2003</b> , 22, 6256-66	13	60
61	P-REX1 creates a positive feedback loop to activate growth factor receptor, PI3K/AKT and MEK/ERK signaling in breast cancer. <i>Oncogene</i> , <b>2015</b> , 34, 3968-76	9.2	56
60	Iron Toxicity in the Retina Requires Alu RNA and the NLRP3 Inflammasome. <i>Cell Reports</i> , <b>2015</b> , 11, 1686-93	13.6	54
59	Shotgun proteomics: integrating technologies to answer biological questions. <i>Current Opinion in Molecular Therapeutics</i> , <b>2003</b> , 5, 302-9		53
58	MS2Grouper: group assessment and synthetic replacement of duplicate proteomic tandem mass spectra. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2005</b> , 16, 1250-61	3.5	51
57	Exocyst dynamics during vesicle tethering and fusion. <i>Nature Communications</i> , <b>2018</b> , 9, 5140	17.4	51
56	Analysis of surface-exposed outer membrane proteins in <i>Helicobacter pylori</i> . <i>Journal of Bacteriology</i> , <b>2014</b> , 196, 2455-71	3.5	50
55	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> , <b>2006</b> , 17, 3793-805	3.5	45
54	Phospho-regulation of the Cdc14/Clp1 phosphatase delays late mitotic events in <i>S. pombe</i> . <i>Developmental Cell</i> , <b>2006</b> , 11, 423-30	10.2	45
53	Glucose autoxidation induces functional damage to proteins via modification of critical arginine residues. <i>Biochemistry</i> , <b>2011</b> , 50, 6102-12	3.2	41

52	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> , <b>2012</b> , 287, 28717-26	5.4	38
51	Robust estimation of peptide abundance ratios and rigorous scoring of their variability and bias in quantitative shotgun proteomics. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 7110-20	7.8	36
50	Proteomic tools for cell biology. <i>Traffic</i> , <b>2000</b> , 1, 747-54	5.7	36
49	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> , <b>2008</b> , 7, 1501-16	7.6	34
48	Charting the protein complexome in yeast by mass spectrometry. <i>Molecular and Cellular Proteomics</i> , <b>2002</b> , 1, 3-10	7.6	34
47	Sepp1(UF) forms are N-terminal selenoprotein P truncations that have peroxidase activity when coupled with thioredoxin reductase-1. <i>Free Radical Biology and Medicine</i> , <b>2014</b> , 69, 67-76	7.8	33
46	Discovery of Widespread Host Protein Interactions with the Pre-replicated Genome of CHIKV Using VIR-CLASP. <i>Molecular Cell</i> , <b>2020</b> , 78, 624-640.e7	17.6	32
45	Obesity and altered glucose metabolism impact HDL composition in CETP transgenic mice: a role for ovarian hormones. <i>Journal of Lipid Research</i> , <b>2012</b> , 53, 379-389	6.3	31
44	Expressed peptide tags: an additional layer of data for genome annotation. <i>Journal of Proteome Research</i> , <b>2006</b> , 5, 3048-58	5.6	29
43	Cell cycle-dependent phosphorylation of the DNA polymerase epsilon subunit, Dpb2, by the Cdc28 cyclin-dependent protein kinase. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 14245-55	5.4	28
42	Characterization of the MDSC proteome associated with metastatic murine mammary tumors using label-free mass spectrometry and shotgun proteomics. <i>PLoS ONE</i> , <b>2011</b> , 6, e22446	3.7	28
41	Alteration of the <i>Helicobacter pylori</i> membrane proteome in response to changes in environmental salt concentration. <i>Proteomics - Clinical Applications</i> , <b>2015</b> , 9, 1021-34	3.1	26
40	<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> , <b>2011</b> , 286, 8043-8054	5.4	25
39	Dual-tagging system for the affinity purification of mammalian protein complexes. <i>BioTechniques</i> , <b>2007</b> , 43, 296, 298, 300 passim	2.5	25
38	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> , <b>2008</b> , 283, 6040-9	5.4	24
37	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> , <b>2011</b> , 17, 6490-9	12.9	21
36	Novel Method for Noninvasive Sampling of the Distal Airspace in Acute Respiratory Distress Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2018</b> , 197, 1027-1035	10.2	20
35	A general system for studying protein-protein interactions in Gram-negative bacteria. <i>Journal of Proteome Research</i> , <b>2008</b> , 7, 3319-28	5.6	20

34	Accumulation of isolevuglandin-modified protein in normal and fibrotic lung. <i>Scientific Reports</i> , <b>2016</b> , 6, 24919	4.9	19
33	Ubiquitin turnover and endocytic trafficking in yeast are regulated by Ser57 phosphorylation of ubiquitin. <i>ELife</i> , <b>2017</b> , 6,	8.9	19
32	Cip1 and Cip2 are novel RNA-recognition-motif proteins that counteract Csx1 function during oxidative stress. <i>Molecular Biology of the Cell</i> , <b>2006</b> , 17, 1176-83	3.5	19
31	Growth phase-dependent composition of the Helicobacter pylori exoproteome. <i>Journal of Proteomics</i> , <b>2016</b> , 130, 94-107	3.9	18
30	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> , <b>2014</b> , 289, 29273-84	5.4	17
29	Geometric restraint drives on- and off-pathway catalysis by the Escherichia coli menaquinol:fumarate reductase. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 3047-56	5.4	17
28	Binding of the Covalent Flavin Assembly Factor to the Flavoprotein Subunit of Complex II. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 2904-16	5.4	15
27	Proteome informatics research group (iPRG)_2012: a study on detecting modified peptides in a complex mixture. <i>Molecular and Cellular Proteomics</i> , <b>2014</b> , 13, 360-71	7.6	15
26	Electrophilic adduction of ubiquitin activating enzyme E1 by N,N-diethylthiocarbamate inhibits ubiquitin activation and is accompanied by striatal injury in the rat. <i>Chemical Research in Toxicology</i> , <b>2012</b> , 25, 2310-21	4	14
25	Global phosphotyrosine proteomics identifies PKC $\beta$ s a marker of responsiveness to Src inhibition in colorectal cancer. <i>PLoS ONE</i> , <b>2013</b> , 8, e80207	3.7	14
24	Evaluation of affinity-tagged protein expression strategies using local and global isotope ratio measurements. <i>Journal of Proteome Research</i> , <b>2009</b> , 8, 3675-88	5.6	13
23	Quantitative Multiple-Reaction Monitoring Proteomic Analysis of G $\beta$ and G $\gamma$ Subunits in C57Bl6/J Brain Synaptosomes. <i>Biochemistry</i> , <b>2017</b> , 56, 5405-5416	3.2	12
22	Use of high specific activity StarFire oligonucleotide probes to visualize low-abundance pre-mRNA splicing intermediates in <i>S. pombe</i> . <i>BioTechniques</i> , <b>2000</b> , 29, 892-7	2.5	12
21	Bacterial Energetic Requirements for Helicobacter pylori Cag Type IV Secretion System-Dependent Alterations in Gastric Epithelial Cells. <i>Infection and Immunity</i> , <b>2020</b> , 88,	3.7	11
20	The in vivo specificity of synaptic G $\beta$ and G $\gamma$ subunits to the $\beta$ adrenergic receptor at CNS synapses. <i>Scientific Reports</i> , <b>2019</b> , 9, 1718	4.9	10
19	Statistically inferring protein-protein associations with affinity isolation LC-MS/MS assays. <i>Journal of Proteome Research</i> , <b>2007</b> , 6, 3788-95	5.6	10
18	Isolation of an essential Schizosaccharomyces pombe gene, prp31(+), that links splicing and meiosis. <i>Nucleic Acids Research</i> , <b>2000</b> , 28, 2214-20	20.1	10
17	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> , <b>2009</b> , 284, 18434-44	5.4	8

16	Chromosomal abnormalities and molecular landscape of metastasizing mucinous salivary adenocarcinoma. <i>Oral Oncology</i> , <b>2017</b> , 66, 38-45	4.4	7
15	Effect of environmental salt concentration on the Helicobacter pylori exoproteome. <i>Journal of Proteomics</i> , <b>2019</b> , 202, 103374	3.9	7
14	Antagonistic roles for the ubiquitin ligase Asr1 and the ubiquitin-specific protease Ubp3 in subtelomeric gene silencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 1309-14	11.5	5
13	LMO2 Oncoprotein Stability in T-Cell Leukemia Requires Direct LDB1 Binding. <i>Molecular and Cellular Biology</i> , <b>2016</b> , 36, 488-506	4.8	4
12	Dnt1 acts as a mitotic inhibitor of the spindle checkpoint protein dma1 in fission yeast. <i>Molecular Biology of the Cell</i> , <b>2012</b> , 23, 3348-56	3.5	4
11	Therapeutic alphavirus cross-reactive E1 human antibodies inhibit viral egress. <i>Cell</i> , <b>2021</b> , 184, 4430-4446	16.2	4
10	Negative regulation of Candida glabrata Pdr1 by the deubiquitinase subunit Bre5 occurs in a ubiquitin independent manner. <i>Molecular Microbiology</i> , <b>2018</b> , 110, 309-323	4.1	3
9	Delineation of the pH-Responsive Regulon Controlled by the Helicobacter pylori ArsRS Two-Component System. <i>Infection and Immunity</i> , <b>2021</b> , 89,	3.7	3
8	Analysis of the role of phosphorylation in fission yeast Cdc13p/cyclinB function. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 14591-6	5.4	2
7	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> , <b>2021</b> , 118,	11.5	2
6	Supporting data for analysis of the Helicobacter pylori exoproteome. <i>Data in Brief</i> , <b>2015</b> , 5, 560-3	1.2	1
5	An analysis pipeline for the inference of protein-protein interaction networks. <i>International Journal of Data Mining and Bioinformatics</i> , <b>2009</b> , 3, 409-30	0.5	1
4	DDR1 contributes to kidney inflammation and fibrosis by promoting the phosphorylation of BCR and STAT3.. <i>JCI Insight</i> , <b>2021</b> ,	9.9	1
3	The 15-Amino Acid Repeat Region of Adenomatous Polyposis Coli Is Intrinsically Disordered and Retains Conformational Flexibility upon Binding E-Catenin. <i>Biochemistry</i> , <b>2020</b> , 59, 4039-4050	3.2	1
2	Specificities of Gβ subunits for the SNARE complex before and after stimulation of E adrenergic receptors.. <i>Science Signaling</i> , <b>2021</b> , 14, eabc4970	8.8	0
1	ApoER2-Mediated Endocytosis of Long-Isoform Selenoprotein P (Sepp1) Supplies Skeletal Muscle Cells with Selenium. <i>FASEB Journal</i> , <b>2012</b> , 26, 241.4	0.9	