

Nicholas A Williamson

List of Publications by Year in descending order

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101
papers

8,429
citations

94381

37
h-index

48277

88
g-index

108
all docs

108
docs citations

108
times ranked

12806
citing authors

#	ARTICLE	IF	CITATIONS
1	MR1 presents microbial vitamin B metabolites to MAIT cells. <i>Nature</i> , 2012, 491, 717-723.	13.7	1,158
2	FunRich: An open access standalone functional enrichment and interaction network analysis tool. <i>Proteomics</i> , 2015, 15, 2597-2601.	1.3	1,145
3	T-cell activation by transitory neo-antigens derived from distinct microbial pathways. <i>Nature</i> , 2014, 509, 361-365.	13.7	731
4	Immune self-reactivity triggered by drug-modified HLA-peptide repertoire. <i>Nature</i> , 2012, 486, 554-558.	13.7	612
5	The principal target of rapamycin-induced p70s6k inactivation is a novel phosphorylation site within a conserved hydrophobic domain.. <i>EMBO Journal</i> , 1995, 14, 5279-5287.	3.5	387
6	Human Leukocyte Antigen Class I-Restricted Activation of CD8+ T Cells Provides the Immunogenetic Basis of a Systemic Drug Hypersensitivity. <i>Immunity</i> , 2008, 28, 822-832.	6.6	309
7	Structure of the Alzheimer's Disease Amyloid Precursor Protein Copper Binding Domain. <i>Journal of Biological Chemistry</i> , 2003, 278, 17401-17407.	1.6	248
8	Dopamine promotes α -synuclein aggregation into SDS-resistant soluble oligomers via a distinct folding pathway. <i>FASEB Journal</i> , 2005, 19, 1377-1379.	0.2	239
9	A type III effector antagonizes death receptor signalling during bacterial gut infection. <i>Nature</i> , 2013, 501, 247-251.	13.7	238
10	A rigorous method to enrich for exosomes from brain tissue. <i>Journal of Extracellular Vesicles</i> , 2017, 6, 1348885.	5.5	218
11	A T cell receptor flattens a bulged antigenic peptide presented by a major histocompatibility complex class I molecule. <i>Nature Immunology</i> , 2007, 8, 268-276.	7.0	206
12	The insulin A-chain epitope recognized by human T cells is posttranslationally modified. <i>Journal of Experimental Medicine</i> , 2005, 202, 1191-1197.	4.2	201
13	Interaction of the Molecular Chaperone α B-Crystallin with α -Synuclein: Effects on Amyloid Fibril Formation and Chaperone Activity. <i>Journal of Molecular Biology</i> , 2004, 340, 1167-1183.	2.0	198
14	Neurotoxic, Redox-competent Alzheimer's β -Amyloid Is Released from Lipid Membrane by Methionine Oxidation. <i>Journal of Biological Chemistry</i> , 2003, 278, 42959-42965.	1.6	176
15	A structural basis for selection and cross-species reactivity of the semi-invariant NKT cell receptor in CD1d/glycolipid recognition. <i>Journal of Experimental Medicine</i> , 2006, 203, 661-673.	4.2	105
16	Dual Requirement for a Newly Identified Phosphorylation Site in p70 ^{s6k} . <i>Molecular and Cellular Biology</i> , 1997, 17, 5648-5655.	1.1	99
17	The immunogenicity of a viral cytotoxic T cell epitope is controlled by its MHC-bound conformation. <i>Journal of Experimental Medicine</i> , 2005, 202, 1249-1260.	4.2	82
18	Phosphorylated self-peptides alter human leukocyte antigen class I-restricted antigen presentation and generate tumor-specific epitopes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 2776-2781.	3.3	69

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19	Disrupting assembly of the inner membrane complex blocks Plasmodium falciparum sexual stage development. PLoS Pathogens, 2017, 13, e1006659.	2.1	69
20	Proteasome-mediated degradation of the C-terminus of the Alzheimer's disease β -amyloid protein precursor: Effect of C-terminal truncation on production of β -amyloid protein. Journal of Neuroscience Research, 2003, 74, 378-385.	1.3	66
21	Direct quantitation of MHC-bound peptide epitopes by selected reaction monitoring. Proteomics, 2011, 11, 2336-2340.	1.3	66
22	A Modular BAM Complex in the Outer Membrane of the α -Proteobacterium Caulobacter crescentus. PLoS ONE, 2010, 5, e8619.	1.1	62
23	Tear Interferon-Gamma as a Biomarker for Evaporative Dry Eye Disease. , 2016, 57, 4824.		61
24	Constraints within major histocompatibility complex class I restricted peptides: Presentation and consequences for T-cell recognition. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5534-5539.	3.3	58
25	T Cell Determinants Incorporating β -Amino Acid Residues Are Protease Resistant and Remain Immunogenic In Vivo. Journal of Immunology, 2005, 175, 3810-3818.	0.4	56
26	The bacterial arginine glycosyltransferase effector NleB preferentially modifies Fas-associated death domain protein (FADD). Journal of Biological Chemistry, 2017, 292, 17337-17350.	1.6	53
27	Expanding the allergen repertoire of salmon and catfish. Allergy: European Journal of Allergy and Clinical Immunology, 2021, 76, 1443-1453.	2.7	46
28	High throughput LC-MS/MS-based proteomic analysis of excretory-secretory products from short-term in vitro culture of Haemonchus contortus. Journal of Proteomics, 2019, 204, 103375.	1.2	44
29	Molecular Markers of Preterm Labor in the Choriodecidua. Reproductive Sciences, 2010, 17, 297-310.	1.1	43
30	Secreted HLA recapitulates the immunopeptidome and allows in-depth coverage of HLA A*02:01 ligands. Molecular Immunology, 2012, 51, 136-142.	1.0	43
31	What Are We Missing by Using Hydrophilic Enrichment? Improving Bacterial Glycoproteome Coverage Using Total Proteome and FAIMS Analyses. Journal of Proteome Research, 2021, 20, 599-612.	1.8	43
32	Specialisation of the Venom Gland Proteome in Predatory Cone Snails Reveals Functional Diversification of the Conotoxin Biosynthetic Pathway. Journal of Proteome Research, 2011, 10, 3904-3919.	1.8	42
33	A Truncated Fragment of Src Protein Kinase Generated by Calpain-mediated Cleavage Is a Mediator of Neuronal Death in Excitotoxicity. Journal of Biological Chemistry, 2013, 288, 9696-9709.	1.6	42
34	Variability of allergens in commercial fish extracts for skin prick testing. Allergy: European Journal of Allergy and Clinical Immunology, 2019, 74, 1352-1363.	2.7	42
35	The Yeast Homolog of Mammalian Ribosomal Protein S30 Is Expressed from a Duplicated Gene without a Ubiquitin-like Protein Fusion Sequence. Journal of Biological Chemistry, 1996, 271, 13549-13555.	1.6	41
36	Modulation of Conotoxin Structure and Function Is Achieved through a Multienzyme Complex in the Venom Glands of Cone Snails. Journal of Biological Chemistry, 2012, 287, 34288-34303.	1.6	41

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37	Opposing roles for JNK and Aurora A in regulating WD40-Repeat Protein 62 association with spindle microtubules. <i>Journal of Cell Science</i> , 2015, 128, 527-40.	1.2	41
38	C-terminal Src Kinase-homologous Kinase (CHK), a Unique Inhibitor Inactivating Multiple Active Conformations of Src Family Tyrosine Kinases. <i>Journal of Biological Chemistry</i> , 2006, 281, 32988-32999.	1.6	40
39	The A-chain of insulin is a hot-spot for CD4+ T cell epitopes in human type 1 diabetes. <i>Clinical and Experimental Immunology</i> , 2009, 156, 226-231.	1.1	40
40	Somatic proteome of <i>Haemonchus contortus</i> . <i>International Journal for Parasitology</i> , 2019, 49, 311-320.	1.3	38
41	A beacon of hope in stroke therapy—Blockade of pathologically activated cellular events in excitotoxic neuronal death as potential neuroprotective strategies. , 2016, 160, 159-179.		35
42	Discovery and characterisation of circular bacteriocin plantacyclin B21AG from <i>Lactiplantibacillus plantarum</i> B21. <i>Heliyon</i> , 2020, 6, e04715.	1.4	35
43	The molecular basis of cross-reactivity in the Australian Snake Venom Detection Kit (SVDK). <i>Toxicon</i> , 2007, 50, 1041-1052.	0.8	34
44	Identification of <i>Conus</i> Peptidylprolyl Cis-Trans Isomerases (PPlases) and Assessment of Their Role in the Oxidative Folding of Conotoxins. <i>Journal of Biological Chemistry</i> , 2010, 285, 12735-12746.	1.6	32
45	Proteomic Interrogation of Venom Delivery in Marine Cone Snails: Novel Insights into the Role of the Venom Bulb. <i>Journal of Proteome Research</i> , 2010, 9, 5610-5619.	1.8	31
46	Embryonic Toxin Expression in the Cone Snail <i>Conus victoriae</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 22546-22557.	1.6	31
47	Dafachronic acid promotes larval development in <i>Haemonchus contortus</i> by modulating dauer signalling and lipid metabolism. <i>PLoS Pathogens</i> , 2019, 15, e1007960.	2.1	31
48	Pancreatic Beta Cells Are Highly Susceptible to Oxidative and ER Stresses during the Development of Diabetes. <i>Journal of Proteome Research</i> , 2015, 14, 688-699.	1.8	30
49	The developmental lipidome of <i>Haemonchus contortus</i> . <i>International Journal for Parasitology</i> , 2018, 48, 887-895.	1.3	30
50	Molecular alterations during larval development of <i>Haemonchus contortus</i> in vitro are under tight post-transcriptional control. <i>International Journal for Parasitology</i> , 2018, 48, 763-772.	1.3	30
51	Intersectin-1 interacts with the golgin GCC88 to couple the actin network and Golgi architecture. <i>Molecular Biology of the Cell</i> , 2019, 30, 370-386.	0.9	30
52	Modulation of the Catalytic Activity of the Src Family Tyrosine Kinase Hck by Autophosphorylation at a Novel Site in the Unique Domain. <i>Journal of Biological Chemistry</i> , 2000, 275, 33353-33364.	1.6	26
53	Aurora A phosphorylation of WD40-repeat protein 62 in mitotic spindle regulation. <i>Cell Cycle</i> , 2016, 15, 413-424.	1.3	26
54	Biologically active constituents of the secretome of human W8B2+ cardiac stem cells. <i>Scientific Reports</i> , 2018, 8, 1579.	1.6	26

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55	Collagenâ€™ An Important Fish Allergen for Improved Diagnosis. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2020, 8, 3084-3092.e10.	2.0	26
56	Post-Translational Processing of Rat Ribosomal Proteins. Ubiquitous Methylation of Lys22 within the Zinc-Finger Motif of RL40 (Carboxy-Terminal Extension Protein 52) and Tissue-Specific Methylation of Lys4 in RL29. <i>FEBS Journal</i> , 1997, 246, 786-793.	0.2	25
57	Reaction hijacking of tyrosine tRNA synthetase as a new whole-of-life-cycle antimalarial strategy. <i>Science</i> , 2022, 376, 1074-1079.	6.0	25
58	Changes in the Cytoplasmic Composition of Amino Acids and Proteins Observed in <i>Staphylococcus aureus</i> during Growth under Variable Growth Conditions Representative of the Human Wound Site. <i>PLoS ONE</i> , 2016, 11, e0159662.	1.1	23
59	A proteomic characterization shows differences in the milk fat globule membrane of buffalo and bovine milk. <i>Food Bioscience</i> , 2017, 19, 7-16.	2.0	23
60	Characterization of presenilin complexes from mouse and human brain using Blue Native gel electrophoresis reveals high expression in embryonic brain and minimal change in complex mobility with pathogenic presenilin mutations. <i>FEBS Journal</i> , 2004, 271, 375-385.	0.2	22
61	Species differences in the neuromuscular activity of post-synaptic neurotoxins from two Australian black snakes (<i>Pseudechis porphyriacus</i> and <i>Pseudechis colletti</i>). <i>Toxicology Letters</i> , 2013, 219, 262-268.	0.4	22
62	Transition to stably stratified states in open channel flow with radiative surface heating. <i>Journal of Fluid Mechanics</i> , 2015, 766, 528-555.	1.4	22
63	The developmental phosphoproteome of <i>Haemonchus contortus</i> . <i>Journal of Proteomics</i> , 2020, 213, 103615.	1.2	21
64	Preterm Lung Exhibits Distinct Spatiotemporal Proteome Expression at Initiation of Lung Injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 61, 631-642.	1.4	19
65	Galectin-7 Impairs Placentation and Causes Preeclampsia Features in Mice. <i>Hypertension</i> , 2020, 76, 1185-1194.	1.3	17
66	Defining the Substrate Specificity Determinants Recognized by the Active Site of C-Terminal Src Kinase-Homologous Kinase (CHK) and Identification of Î²-Synuclein as a Potential CHK Physiological Substrate. <i>Biochemistry</i> , 2011, 50, 6667-6677.	1.2	16
67	Quantitative proteomic analyses of dynamic signalling events in cortical neurons undergoing excitotoxic cell death. <i>Cell Death and Disease</i> , 2019, 10, 213.	2.7	16
68	Evolution of thermally stratified turbulent open channel flow after removal of the heat source. <i>Journal of Fluid Mechanics</i> , 2019, 876, 356-412.	1.4	15
69	The ataxin-1 interactome reveals direct connection with multiple disrupted nuclear transport pathways. <i>Nature Communications</i> , 2020, 11, 3343.	5.8	15
70	Membrane-Enriched Proteomics Link Ribosome Accumulation and Proteome Reprogramming With Cold Acclimation in Barley Root Meristems. <i>Frontiers in Plant Science</i> , 2021, 12, 656683.	1.7	15
71	Exploiting Information Inherent in Binding Sites of Virus-Specific Antibodies: Design of An HCV Vaccine Candidate Cross-Reactive with Multiple Genotypes. <i>Antiviral Therapy</i> , 2006, 11, 1005-1014.	0.6	15
72	Mass Spectral Identification of Vc1.1 and Differential Distribution of Conopeptides in the Venom Duct of <i>Conus victoriae</i> . Effect of Post-Translational Modifications and Disulfide Isomerisation on Bioactivity. <i>International Journal of Peptide Research and Therapeutics</i> , 2009, 15, 195-203.	0.9	14

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73	Lipid composition and abundance in the reproductive and alimentary tracts of female <i>Haemonchus contortus</i> . <i>Parasites and Vectors</i> , 2020, 13, 338.	1.0	13
74	Phosphomatics: interactive interrogation of substrateâ€“kinase networks in global phosphoproteomics datasets. <i>Bioinformatics</i> , 2021, 37, 1635-1636.	1.8	12
75	Use of proteomics to define targets of T-cell immunity. <i>Expert Review of Proteomics</i> , 2005, 2, 367-380.	1.3	11
76	Tumors reveal their secrets to cytotoxic T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 14649-14650.	3.3	11
77	Deep proteomic profiling unveils arylsulfatase A as a non-alcoholic steatohepatitis inducible hepatokine and regulator of glycemic control. <i>Nature Communications</i> , 2022, 13, 1259.	5.8	11
78	Destratification of thermally stratified turbulent open-channel flow by surface cooling. <i>Journal of Fluid Mechanics</i> , 2020, 899, .	1.4	9
79	Complementary proteomics strategies capture an ataxin-1 interactome in Neuro-2a cells. <i>Scientific Data</i> , 2018, 5, 180262.	2.4	8
80	Hexosaminidase A (HEXA) regulates hepatic sphingolipid and lipoprotein metabolism in mice. <i>FASEB Journal</i> , 2021, 35, e22046.	0.2	8
81	A role for Rab30 in retrograde trafficking and maintenance of endosome-TGN organization. <i>Experimental Cell Research</i> , 2021, 399, 112442.	1.2	7
82	Turbulence structure in a very sharp thermally stratified open-channel meander. <i>Physics of Fluids</i> , 2022, 34, 035130.	1.6	6
83	A novel strategy for the targeted analysis of protein and peptide metabolites. <i>Proteomics</i> , 2011, 11, 183-192.	1.3	5
84	Lateral circulation in a stratified open channel on a 120Â° bend. <i>Water Resources Research</i> , 2012, 48, .	1.7	5
85	Proteomics reveals region-specific hemostatic alterations in response to mechanical ventilation in a preterm lamb model of lung injury. <i>Thrombosis Research</i> , 2020, 196, 466-475.	0.8	5
86	Prednisolone Alters Endometrial Decidual Cells and Affects Decidual-Trophoblast Interactions. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 647496.	1.8	5
87	Occupational Allergic Sensitization Among Workers Processing King Crab (<i>Paralithodes</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 1 Allergenic Proteins. <i>Frontiers in Allergy</i> , 2021, 2, 718824.	1.2	5
88	Quantitative lipidomic analysis of <i>Ascaris suum</i> . <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008848.	1.3	5
89	Tropomyosin Is A Novel Major Fish Allergen Of Unrecognized Importance. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 145, AB226.	1.5	4
90	Human Leukocyte Antigen Class I-Restricted Activation of CD8+ T Cells Provides the Immunogenetic Basis of a Systemic Drug Hypersensitivity. <i>Immunity</i> , 2008, 29, 165.	6.6	3

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91	Refinement in the production and purification of recombinant HCMV IE1â€“pp65 protein for the generation of epitope-specific T cell immunity. <i>Protein Expression and Purification</i> , 2008, 61, 22-30.	0.6	3
92	Operational Experience of an Open-Access, Subscription-Based Mass Spectrometry and Proteomics Facility. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 439-446.	1.2	3
93	Stable isotope shifted matrices enable the use of low mass ion precursor scanning for targeted metabolite identification. <i>Proteome Science</i> , 2011, 9, 2.	0.7	2
94	Getting more out of FLAG-Tag co-immunoprecipitation mass spectrometry experiments using FAIMS. <i>Journal of Proteomics</i> , 2022, 254, 104473.	1.2	2
95	Expression and purification of the minor histocompatibility antigen, HA-1H generated in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2007, 54, 176-182.	0.6	1
96	A novel strategy for the targeted analysis of protein and peptide metabolites. <i>Nature Precedings</i> , 2009, , .	0.1	0
97	C-terminal Src kinase-homologous kinase (CHK), a unique inhibitor inactivating multiple active conformations of Src family tyrosine kinases.. <i>Journal of Biological Chemistry</i> , 2015, 290, 240.	1.6	0
98	Quantitative lipidomic analysis of <i>Ascaris suum</i> . , 2020, 14, e0008848.		0
99	Quantitative lipidomic analysis of <i>Ascaris suum</i> . , 2020, 14, e0008848.		0
100	Quantitative lipidomic analysis of <i>Ascaris suum</i> . , 2020, 14, e0008848.		0
101	Quantitative lipidomic analysis of <i>Ascaris suum</i> . , 2020, 14, e0008848.		0