

# Patrick A Eyers

## List of Publications by Year in descending order

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Version: 2024-02-01

93  
papers

8,228  
citations

71102

41  
h-index

53230

85  
g-index

113  
all docs

113  
docs citations

113  
times ranked

11822  
citing authors

#	ARTICLE	IF	CITATIONS
1	Drug repurposing: progress, challenges and recommendations. <i>Nature Reviews Drug Discovery</i> , 2019, 18, 41-58.	46.4	2,689
2	A Novel Mechanism for Activation of the Protein Kinase Aurora A. <i>Current Biology</i> , 2003, 13, 691-697.	3.9	331
3	Conversion of SB 203580-insensitive MAP kinase family members to drug-sensitive forms by a single amino-acid substitution. <i>Chemistry and Biology</i> , 1998, 5, 321-328.	6.0	294
4	Validating Aurora B as an anti-cancer drug target. <i>Journal of Cell Science</i> , 2006, 119, 3664-3675.	2.0	280
5	A robust methodology to subclassify pseudokinases based on their nucleotide-binding properties. <i>Biochemical Journal</i> , 2014, 457, 323-334.	3.7	241
6	Paradoxical activation of Raf by a novel Raf inhibitor. <i>Chemistry and Biology</i> , 1999, 6, 559-568.	6.0	232
7	Tribbles in the 21st Century: The Evolving Roles of Tribbles Pseudokinases in Biology and Disease. <i>Trends in Cell Biology</i> , 2017, 27, 284-298.	7.9	192
8	A framework for identification of actionable cancer genome dependencies in small cell lung cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 17034-17039.	7.1	167
9	Local protein kinase A action proceeds through intact holoenzymes. <i>Science</i> , 2017, 356, 1288-1293.	12.6	165
10	Day of the dead: pseudokinases and pseudophosphatases in physiology and disease. <i>Trends in Cell Biology</i> , 2014, 24, 489-505.	7.9	148
11	Identification of Novel Phosphorylation Sites on <i>Xenopus laevis</i> Aurora A and Analysis of Phosphopeptide Enrichment by Immobilized Metal-affinity Chromatography. <i>Molecular and Cellular Proteomics</i> , 2003, 2, 1055-1067.	3.8	127
12	New Perspectives, Opportunities, and Challenges in Exploring the Human Protein Kinome. <i>Cancer Research</i> , 2018, 78, 15-29.	0.9	124
13	Strong anion exchange-mediated phosphoproteomics reveals extensive human non-canonical phosphorylation. <i>EMBO Journal</i> , 2019, 38, e100847.	7.8	118
14	Regulation of <i>Xenopus</i> Aurora A Activation by TPX2. <i>Journal of Biological Chemistry</i> , 2004, 279, 9008-9015.	3.4	115
15	VX-680 Inhibits Aurora A and Aurora B Kinase Activity in Human Cells. <i>Cell Cycle</i> , 2007, 6, 2846-2854.	2.6	108
16	Use of a drug-resistant mutant of stress-activated protein kinase 2a/p38 to validate the in vivo specificity of SB 203580. <i>FEBS Letters</i> , 1999, 451, 191-196.	2.8	106
17	Drug-Resistant Aurora A Mutants for Cellular Target Validation of the Small Molecule Kinase Inhibitors MLN8054 and MLN8237. <i>ACS Chemical Biology</i> , 2010, 5, 563-576.	3.4	102
18	Dawn of the dead: protein pseudokinases signal new adventures in cell biology. <i>Biochemical Society Transactions</i> , 2013, 41, 969-974.	3.4	93

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19	Live and let die: insights into pseudoenzyme mechanisms from structure. <i>Current Opinion in Structural Biology</i> , 2017, 47, 95-104.	5.7	91
20	Spindle Pole Regulation by a Discrete Eg5-Interacting Domain in TPX2. <i>Current Biology</i> , 2008, 18, 519-525.	3.9	90
21	A single sulfatase is required to access colonic mucin by a gut bacterium. <i>Nature</i> , 2021, 598, 332-337.	27.8	87
22	Bio-Zombie: the rise of pseudoenzymes in biology. <i>Biochemical Society Transactions</i> , 2017, 45, 537-544.	3.4	85
23	Emerging concepts in pseudoenzyme classification, evolution, and signaling. <i>Science Signaling</i> , 2019, 12, .	3.6	80
24	Tracing the origin and evolution of pseudokinases across the tree of life. <i>Science Signaling</i> , 2019, 12, .	3.6	79
25	The evolving world of pseudoenzymes: proteins, prejudice and zombies. <i>BMC Biology</i> , 2016, 14, 98.	3.8	78
26	The hVps34â€•<scp>SGK</scp> 3 pathway alleviates sustained PI3K/Akt inhibition by stimulating <scp>mTORC</scp> 1 and tumour growth. <i>EMBO Journal</i> , 2016, 35, 1902-1922.	7.8	77
27	Characterising proteolysis during SARS-CoV-2 infection identifies viral cleavage sites and cellular targets with therapeutic potential. <i>Nature Communications</i> , 2021, 12, 5553.	12.8	76
28	Pseudokinases: update on their functions and evaluation as new drug targets. <i>Future Medicinal Chemistry</i> , 2017, 9, 245-265.	2.3	71
29	The Tribbles 2 (TRB2) pseudokinase binds to ATP and autophosphorylates in a metal-independent manner. <i>Biochemical Journal</i> , 2015, 467, 47-62.	3.7	70
30	Aurora A and Aurora B jointly coordinate chromosome segregation and anaphase microtubule dynamics. <i>Journal of Cell Biology</i> , 2011, 195, 1103-1113.	5.2	68
31	Evaluation of Parameters for Confident Phosphorylation Site Localization Using an Orbitrap Fusion Tribrid Mass Spectrometer. <i>Journal of Proteome Research</i> , 2017, 16, 3448-3459.	3.7	68
32	Discovery and Exploitation of Inhibitor-resistant Aurora and Polo Kinase Mutants for the Analysis of Mitotic Networks. <i>Journal of Biological Chemistry</i> , 2009, 284, 15880-15893.	3.4	66
33	Covalent inhibitors of EGFR family protein kinases induce degradation of human Tribbles 2 (TRB2) pseudokinase in cancer cells. <i>Science Signaling</i> , 2018, 11, .	3.6	66
34	Aurora A regulation by reversible cysteine oxidation reveals evolutionarily conserved redox control of Ser/Thr protein kinase activity. <i>Science Signaling</i> , 2020, 13, .	3.6	65
35	cAMP-dependent protein kinase (PKA) complexes probed by complementary differential scanning fluorimetry and ion mobilityâ€•mass spectrometry. <i>Biochemical Journal</i> , 2016, 473, 3159-3175.	3.7	59
36	Plk4 and Aurora A cooperate in the initiation of acentriolar spindle assembly in mammalian oocytes. <i>Journal of Cell Biology</i> , 2017, 216, 3571-3590.	5.2	58

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37	Spindle checkpoint proteins Mad1 and Mad2 are required for cytosstatic factor-mediated metaphase arrest. <i>Journal of Cell Biology</i> , 2003, 163, 1231-1242.	5.2	56
38	BH3-only proteins are dispensable for apoptosis induced by pharmacological inhibition of both MCL-1 and BCL-XL. <i>Cell Death and Differentiation</i> , 2019, 26, 1037-1047.	11.2	56
39	Phosphoregulation of human Mps1 kinase. <i>Biochemical Journal</i> , 2009, 417, 173-184.	3.7	52
40	Metabolic control of BRISC-SHMT2 assembly regulates immune signalling. <i>Nature</i> , 2019, 570, 194-199.	27.8	51
41	Crystal Structure of the Catalytic Domain of the Mitotic Checkpoint Kinase Mps1 in Complex with SP600125. <i>Journal of Biological Chemistry</i> , 2008, 283, 21495-21500.	3.4	50
42	KinView: a visual comparative sequence analysis tool for integrated kinome research. <i>Molecular BioSystems</i> , 2016, 12, 3651-3665.	2.9	47
43	Regulation of System A amino acid transport in L6 rat skeletal muscle cells by insulin, chemical and hyperthermic stress. <i>FEBS Letters</i> , 1998, 441, 15-19.	2.8	46
44	Covalent Aurora A regulation by the metabolic integrator coenzyme A. <i>Redox Biology</i> , 2020, 28, 101318.	9.0	45
45	TD-60 links RalA GTPase function to the CPC in mitosis. <i>Nature Communications</i> , 2015, 6, 7678.	12.8	43
46	Rigorous determination of the stoichiometry of protein phosphorylation using mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 2211-2220.	2.8	40
47	The Aurora A and Aurora B Protein Kinases: A Single Amino Acid Difference Controls Intrinsic Activity and Activation by TPX2. <i>Cell Cycle</i> , 2005, 4, 784-789.	2.6	39
48	Regulation of the G2/M Transition in <i>Xenopus</i> Oocytes by the cAMP-dependent Protein Kinase. <i>Journal of Biological Chemistry</i> , 2005, 280, 24339-24346.	3.4	36
49	Understanding protein-drug interactions using ion mobility mass spectrometry. <i>Current Opinion in Chemical Biology</i> , 2018, 42, 167-176.	6.1	36
50	Biophysical and X-ray Crystallographic Analysis of Mps1 Kinase Inhibitor Complexes. <i>Biochemistry</i> , 2010, 49, 1689-1701.	2.5	35
51	Human CDK18 promotes replication stress signaling and genome stability. <i>Nucleic Acids Research</i> , 2016, 44, 8772-8785.	14.5	35
52	Cataloguing the dead: breathing new life into pseudokinase research. <i>FEBS Journal</i> , 2020, 287, 4150-4169.	4.7	35
53	Hydrophobic Core Variations Provide a Structural Framework for Tyrosine Kinase Evolution and Functional Specialization. <i>PLoS Genetics</i> , 2016, 12, e1005885.	3.5	35
54	New tools for evaluating protein tyrosine sulfation: tyrosylprotein sulfotransferases (TPSTs) are novel targets for RAF protein kinase inhibitors. <i>Biochemical Journal</i> , 2018, 475, 2435-2455.	3.7	33

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55	Going for broke: targeting the human cancer pseudokinome. <i>Biochemical Journal</i> , 2015, 465, 195-211.	3.7	31
56	DRP-1 is required for BH3 mimetic-mediated mitochondrial fragmentation and apoptosis. <i>Cell Death and Disease</i> , 2018, 8, e2552-e2552.	6.3	29
57	Mitotic phosphotyrosine network analysis reveals that tyrosine phosphorylation regulates Polo-like kinase 1 (PLK1). <i>Science Signaling</i> , 2016, 9, rs14.	3.6	26
58	Use of the Polo-like kinase 4 (PLK4) inhibitor centrinone to investigate intracellular signalling networks using SILAC-based phosphoproteomics. <i>Biochemical Journal</i> , 2020, 477, 2451-2475.	3.7	23
59	Mps1 Phosphorylates Its N-Terminal Extension to Relieve Autoinhibition and Activate the Spindle Assembly Checkpoint. <i>Current Biology</i> , 2018, 28, 872-883.e5.	3.9	22
60	Protein Kinase A Is Central for Forward Transport of Two-pore Domain Potassium Channels K2P3.1 and K2P9.1. <i>Journal of Biological Chemistry</i> , 2011, 286, 14110-14119.	3.4	21
61	Centrin 3 is an inhibitor of centrosomal Mps1 and antagonizes centrin 2 function. <i>Molecular Biology of the Cell</i> , 2015, 26, 3741-3753.	2.1	19
62	Human TRIB2 Oscillates during the Cell Cycle and Promotes Ubiquitination and Degradation of CDC25C. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1378.	4.1	19
63	Tribbles pseudokinases: novel targets for chemical biology and drug discovery?. <i>Biochemical Society Transactions</i> , 2015, 43, 1095-1103.	3.4	18
64	DNA Binding and Phosphorylation Regulate the Core Structure of the NF- $\kappa$ B p50 Transcription Factor. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 128-138.	2.8	18
65	Mislocalization of protein kinase A drives pathology in Cushing's syndrome. <i>Cell Reports</i> , 2022, 40, 111073.	6.4	18
66	New tools for carbohydrate sulfation analysis: heparan sulfate 2-O-sulfotransferase (HS2ST) is a target for small-molecule protein kinase inhibitors. <i>Biochemical Journal</i> , 2021, 475, 2417-2433.	3.7	17
67	The Resistance Tetrad. <i>Methods in Enzymology</i> , 2014, 548, 117-146.	1.0	16
68	Sulfated glycan recognition by carbohydrate sulfatases of the human gut microbiota. <i>Nature Chemical Biology</i> , 2022, 18, 841-849.	8.0	16
69	TRIBBLES: A Twist in the Pseudokinase Tail. <i>Structure</i> , 2015, 23, 1974-1976.	3.3	15
70	Trib2 expression in granulocyte-monocyte progenitors drives a highly drug resistant acute myeloid leukaemia linked to elevated Bcl2. <i>Oncotarget</i> , 2018, 9, 14977-14992.	1.8	15
71	Profiling the Human Phosphoproteome to Estimate the True Extent of Protein Phosphorylation. <i>Journal of Proteome Research</i> , 2022, 21, 1510-1524.	3.7	15
72	Regulating the Regulators: Aurora A Activation and Mitosis. <i>Cell Cycle</i> , 2003, 2, 286-288.	2.6	14

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73	KinOrtho: a method for mapping human kinase orthologs across the tree of life and illuminating understudied kinases. <i>BMC Bioinformatics</i> , 2021, 22, 446.	2.6	13
74	A redox-active switch in fructosamine-3-kinases expands the regulatory repertoire of the protein kinase superfamily. <i>Science Signaling</i> , 2020, 13, .	3.6	12
75	Kinome-wide transcriptional profiling of uveal melanoma reveals new vulnerabilities to targeted therapeutics. <i>Pigment Cell and Melanoma Research</i> , 2018, 31, 253-266.	3.3	11
76	Towards 20,20-difluorinated bryostatin: synthesis and biological evaluation of C17,C27-fragments. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1487-1505.	2.8	10
77	Mobility shift-based electrophoresis coupled with fluorescent detection enables real-time enzyme analysis of carbohydrate sulfatase activity. <i>Biochemical Journal</i> , 2021, 478, 735-748.	3.7	6
78	A new consensus for evaluating <sc>CDKL</sc> 5/ <sc>STK</sc> 9-dependent signalling mechanisms. <i>EMBO Journal</i> , 2018, 37, .	7.8	5
79	Structure-based design of nucleoside-derived analogues as sulfotransferase inhibitors. <i>RSC Advances</i> , 2019, 9, 32165-32173.	3.6	5
80	Marveling at the Incredible ULK4. <i>Structure</i> , 2020, 28, 1181-1183.	3.3	5
81	â€ˆUp with the LRRKâ€™: a phosphorylated Rab10 assay for evaluation of LRRK2 activity and inhibitor engagement. <i>Biochemical Journal</i> , 2016, 473, 2757-2762.	3.7	4
82	Back to the future: new target-validated Rab antibodies for evaluating LRRK2 signalling in cell biology and Parkinson's disease. <i>Biochemical Journal</i> , 2018, 475, 185-189.	3.7	4
83	Computational tools and resources for pseudokinase research. <i>Methods in Enzymology</i> , 2022, 667, 403-426.	1.0	4
84	Biochemical Analysis of AKAP-Anchored PKA Signaling Complexes. <i>Methods in Molecular Biology</i> , 2022, 2483, 297-317.	0.9	4
85	Analysis of human Tribbles 2 (TRIB2) pseudokinase. <i>Methods in Enzymology</i> , 2022, 667, 79-99.	1.0	4
86	Autophosphorylation Is a Mechanism of Inhibition in Twitchin Kinase. <i>Journal of Molecular Biology</i> , 2018, 430, 793-805.	4.2	3
87	Exploring the Conformational Landscape and Stability of Aurora A Using Ion-Mobility Mass Spectrometry and Molecular Modeling. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 420-435.	2.8	3
88	Determination of Phosphohistidine Stoichiometry in Histidine Kinases by Intact Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2020, 2077, 83-91.	0.9	1
89	Analysis of 1- and 3-Phosphohistidine (pHis) Protein Modification Using Model Enzymes Expressed in Bacteria. <i>Methods in Molecular Biology</i> , 2020, 2077, 63-81.	0.9	1
90	Rheostat-ing Mitosis. <i>Chemistry and Biology</i> , 2013, 20, 142-143.	6.0	0

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91	Elucidation and Therapeutic Targeting Of The Molecular Mechanism Of TRIB2-Mediated Acute Myeloid Leukaemia. Blood, 2013, 122, 3792-3792.	1.4	0
92	Elucidation and Therapeutic Targeting Of The Molecular Mechanism Of TRIB2-Mediated Acute Myeloid Leukaemia. Blood, 2013, 122, 3799-3799.	1.4	0
93	Correction: Mobility shift-based electrophoresis coupled with fluorescent detection enables real-time enzyme analysis of carbohydrate sulfatase activity. Biochemical Journal, 2021, 478, 2537-2538.	3.7	0