

Dominic P Byrne

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,204
citations

430874

18
h-index

434195

31
g-index

42
all docs

42
docs citations

42
times ranked

1530
citing authors

#	ARTICLE	IF	CITATIONS
1	Local protein kinase A action proceeds through intact holoenzymes. <i>Science</i> , 2017, 356, 1288-1293.	12.6	165
2	Strong anion exchange-mediated phosphoproteomics reveals extensive human non-canonical phosphorylation. <i>EMBO Journal</i> , 2019, 38, e100847.	7.8	118
3	A single sulfatase is required to access colonic mucin by a gut bacterium. <i>Nature</i> , 2021, 598, 332-337.	27.8	87
4	Pseudokinases: update on their functions and evaluation as new drug targets. <i>Future Medicinal Chemistry</i> , 2017, 9, 245-265.	2.3	71
5	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
6	Covalent inhibitors of EGFR family protein kinases induce degradation of human Tribbles 2 (TRIB2) pseudokinase in cancer cells. <i>Science Signaling</i> , 2018, 11, .	3.6	66
7	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
8	cAMP-dependent protein kinase (PKA) complexes probed by complementary differential scanning fluorimetry and ion mobility-mass spectrometry. <i>Biochemical Journal</i> , 2016, 473, 3159-3175.	3.7	59
9	Metabolic control of BRISC-SHMT2 assembly regulates immune signalling. <i>Nature</i> , 2019, 570, 194-199.	27.8	51
10	KinView: a visual comparative sequence analysis tool for integrated kinome research. <i>Molecular BioSystems</i> , 2016, 12, 3651-3665.	2.9	47
11	Covalent Aurora A regulation by the metabolic integrator coenzyme A. <i>Redox Biology</i> , 2020, 28, 101318.	9.0	45
12	Cataloguing the dead: breathing new life into pseudokinase research. <i>FEBS Journal</i> , 2020, 287, 4150-4169.	4.7	35
13	Hydrophobic Core Variations Provide a Structural Framework for Tyrosine Kinase Evolution and Functional Specialization. <i>PLoS Genetics</i> , 2016, 12, e1005885.	3.5	35
14	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
15	Going for broke: targeting the human cancer pseudokinome. <i>Biochemical Journal</i> , 2015, 465, 195-211.	3.7	31
16	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
17	Mitotic phosphotyrosine network analysis reveals that tyrosine phosphorylation regulates Polo-like kinase 1 (PLK1). <i>Science Signaling</i> , 2016, 9, rs14.	3.6	26
18	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

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19	Pyocyanin, a Contributory Factor in Haem Acquisition and Virulence Enhancement of <i>Porphyrromonas gingivalis</i> in the Lung. <i>PLoS ONE</i> , 2015, 10, e0118319.	2.5	22
20	Tribbles pseudokinases: novel targets for chemical biology and drug discovery?. <i>Biochemical Society Transactions</i> , 2015, 43, 1095-1103.	3.4	18
21	DNA Binding and Phosphorylation Regulate the Core Structure of the NF- κ B p50 Transcription Factor. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 128-138.	2.8	18
22	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
23	Sulfated glycan recognition by carbohydrate sulfatases of the human gut microbiota. <i>Nature Chemical Biology</i> , 2022, 18, 841-849.	8.0	16
24	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
25	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
26	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
27	Structure-based design of nucleoside-derived analogues as sulfotransferase inhibitors. <i>RSC Advances</i> , 2019, 9, 32165-32173.	3.6	5
28	Biochemical Analysis of AKAP-Anchored PKA Signaling Complexes. <i>Methods in Molecular Biology</i> , 2022, 2483, 297-317.	0.9	4
29	Analysis of human Tribbles 2 (TRIB2) pseudokinase. <i>Methods in Enzymology</i> , 2022, 667, 79-99.	1.0	4
30	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
31	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
32	Correction: Mobility shift-based electrophoresis coupled with fluorescent detection enables real-time enzyme analysis of carbohydrate sulfatase activity. <i>Biochemical Journal</i> , 2021, 478, 2537-2538.	3.7	0