Tom D Bunney

List of Publications by Year
in descending order

45 papers	4,136 citations	172457 29 h-index	233421 45 g-index
46 all docs	46 docs citations	46 times ranked	6223 citing authors

#	Article	IF	Citations
1	Characterization of the membrane interactions of phospholipase Cî³ reveals key features of the active enzyme. Science Advances, 2022, 8, .	10.3	7
2	TREM2/PLCî³2 signalling in immune cells: function, structural insight, and potential therapeutic modulation. Molecular Neurodegeneration, 2021, 16, 22.	10.8	27
3	Structural insights and activating mutations in diverse pathologies define mechanisms of deregulation for phospholipase C gamma enzymes. EBioMedicine, 2020, 51, 102607.	6.1	31
4	Severe Autoinflammatory Manifestations and Antibody Deficiency Due to Novel Hypermorphic PLCG2 Mutations. Journal of Clinical Immunology, 2020, 40, 987-1000.	3.8	41
5	Targeting the Src Pathway Enhances the Efficacy of Selective FGFR Inhibitors in Urothelial Cancers with FGFR3 Alterations. International Journal of Molecular Sciences, 2020, 21, 3214.	4.1	11
6	Disease Variants of FGFR3 Reveal Molecular Basis for the Recognition and Additional Roles for Cdc37 in Hsp90 Chaperone System. Structure, 2018, 26, 446-458.e8.	3.3	13
7	NMR backbone assignments of the tyrosine kinase domain of human fibroblast growth factor receptor 3 in apo state and in complex with inhibitor PD173074. Biomolecular NMR Assignments, 2018, 12, 231-235.	0.8	2
8	Dynamic Allostery in PLCî³1 and Its Modulation by a Cancer Mutation Revealed by MD Simulation and NMR. Biophysical Journal, 2018, 115, 31-45.	0.5	10
9	Conformational transition of FGFR kinase activation revealed by site-specific unnatural amino acid reporter and single molecule FRET. Scientific Reports, 2017, 7, 39841.	3.3	6
10	Landscape of activating cancer mutations in FGFR kinases and their differential responses to inhibitors in clinical use. Oncotarget, 2016, 7, 24252-24268.	1.8	83
11	Global Profiling of Huntingtin-associated protein E (HYPE)-Mediated AMPylation through a Chemical Proteomic Approach. Molecular and Cellular Proteomics, 2016, 15, 715-725.	3.8	56
12	Time-resolved FRET reports FGFR1 dimerization and formation of a complex with its effector PLCî³1. Advances in Biological Regulation, 2016, 60, 6-13.	2.3	9
13	The Effect of Mutations on Drug Sensitivity and Kinase Activity of Fibroblast Growth Factor Receptors: A Combined Experimental and Theoretical Study. EBioMedicine, 2015, 2, 194-204.	6.1	60
14	Crystal Structure of the Human, FIC-Domain Containing Protein HYPE and Implications for Its Functions. Structure, 2014, 22, 1831-1843.	3.3	48
15	Recurrent PTPRB and PLCG1 mutations in angiosarcoma. Nature Genetics, 2014, 46, 376-379.	21.4	269
16	Dysfunction of phospholipase Cî³ in immune disorders and cancer. Trends in Biochemical Sciences, 2014, 39, 603-611.	7.5	107
17	Cold Urticaria, Immunodeficiency, and Autoimmunity Related toPLCG2Deletions. New England Journal of Medicine, 2012, 366, 330-338.	27.0	391
18	A Hypermorphic Missense Mutation in PLCG2 , Encoding Phospholipase Cî³2, Causes a Dominantly Inherited Autoinflammatory Disease with Immunodeficiency. American Journal of Human Genetics, 2012, 91, 713-720.	6.2	327

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19	Structural and Functional Integration of the PLCÎ³ Interaction Domains Critical for Regulatory Mechanisms and Signaling Deregulation. Structure, 2012, 20, 2062-2075.	3.3	77
20	PLC regulation: emerging pictures for molecular mechanisms. Trends in Biochemical Sciences, 2011, 36, 88-96.	7.5	159
21	Membrane Environment Exerts an Important Influence on Rac-Mediated Activation of Phospholipase CÎ³2. Molecular and Cellular Biology, 2011, 31, 1240-1251.	2.3	24
22	Phosphoinositide signalling in cancer: beyond PI3K and PTEN. Nature Reviews Cancer, 2010, 10, 342-352.	28.4	369
23	Characterization of Phospholipase CÎ³ Enzymes with Gain-of-Function Mutations. Journal of Biological Chemistry, 2009, 284, 23083-23093.	3.4	58
24	Regulatory links between PLC enzymes and Ras superfamily GTPases: Signalling via PLCÉ›. Advances in Enzyme Regulation, 2009, 49, 54-58.	2.6	52
25	Structural Insights into Formation of an Active Signaling Complex between Rac and Phospholipase C Gamma 2. Molecular Cell, 2009, 34, 223-233.	9.7	67
26	In vitro Reconstitution of Activation of PLCÎµ by Ras and Rho GTPases. Methods in Molecular Biology, 2009, 462, 1-11.	0.9	7
27	High speed unsupervised fluorescence lifetime imaging confocal multiwell plate reader for high content analysis. Journal of Biophotonics, 2008, 1, 514-521.	2.3	53
28	Multiplexed FRET to Image Multiple Signaling Events in Live Cells. Biophysical Journal, 2008, 95, L69-L71.	0.5	100
29	Rac Regulates Its Effector Phospholipase CÎ³2 through Interaction with a Split Pleckstrin Homology Domain. Journal of Biological Chemistry, 2008, 283, 30351-30362.	3.4	56
30	Characterization of Interactions of Adapter Protein RAPL/Nore1B with RAP GTPases and Their Role in T Cell Migration. Journal of Biological Chemistry, 2007, 282, 30629-30642.	3.4	35
31	14-3-3 adaptor proteins are intermediates in ABA signal transduction during barley seed germination. Plant Journal, 2007, 49, 289-301.	5.7	133
32	Structural and Mechanistic Insights into Ras Association Domains of Phospholipase C Epsilon. Molecular Cell, 2006, 21, 495-507.	9.7	129
33	Positional cloning uncovers mutations in PLCE1 responsible for a nephrotic syndrome variant that may be reversible. Nature Genetics, 2006, 38, 1397-1405.	21.4	510
34	Phospholipase C epsilon: linking second messengers and small GTPases. Trends in Cell Biology, 2006, 16, 640-648.	7.9	132
35	Single amino acid variation in barley 14-3-3 proteins leads to functional isoform specificity in the regulation of nitrate reductase. Plant Journal, 2005, 44, 1001-1009.	5.7	25
36	RalA interacts with ZONAB in a cell density-dependent manner and regulates its transcriptional activity. EMBO Journal, 2005, 24, 54-62.	7.8	100

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37	Signaling properties and expression in normal and tumor tissues of two phospholipase C epsilon splice variants. Oncogene, 2005, 24, 90-100.	5.9	58
38	Backbone 1H, 13C, and 15N Resonance Assignments for the two 13ÂkD Ras Associating Domains (RA1 and) Tj ETQq0 0 0 rgBT /Overloc	2.8	3
39	Autoimmunity and Inflammation Due to a Gain-of-Function Mutation in Phospholipase Cî³2 that Specifically Increases External Ca2+ Entry. Immunity, 2005, 22, 451-465.	14.3	159
40	Fusicoccin signaling reveals 14-3-3 protein function as a novel step in left-right patterning during amphibian embryogenesis. Development (Cambridge), 2003, 130, 4847-4858.	2.5	102
41	14-3-3 protein regulation of proton pumps and ion channels. Plant Molecular Biology, 2002, 50, 1041-1051.	3.9	58
42	Slow vacuolar channels from barley mesophyll cells are regulated by 14-3-3 proteins. FEBS Letters, 2001, 488, 100-104.	2.8	57
43	Association of Phosphatidylinositol 3-Kinase with Nuclear Transcription Sites in Higher Plants. Plant Cell, 2000, 12, 1679-1687.	6.6	87
44	ATP-dependent regulation of nuclear Ca2+levels in plant cells. FEBS Letters, 2000, 476, 145-149.	2.8	27
45	Nuclear Ca2+-fluxes and phosphoinositides in plants. Biochemical Society Transactions, 1995, 23, 581S-581S.	3.4	1