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	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
2	Cold Urticaria, Immunodeficiency, and Autoimmunity Related toPLCG2Deletions. New England Journal of Medicine, 2012, 366, 330-338.	27.0	391
3	Phosphoinositide signalling in cancer: beyond PI3K and PTEN. Nature Reviews Cancer, 2010, 10, 342-352.	28.4	369
4	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
5	Recurrent PTPRB and PLCG1 mutations in angiosarcoma. Nature Genetics, 2014, 46, 376-379.	21.4	269
6	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
7	PLC regulation: emerging pictures for molecular mechanisms. Trends in Biochemical Sciences, 2011, 36, 88-96.	7.5	159
8	14-3-3 adaptor proteins are intermediates in ABA signal transduction during barley seed germination. Plant Journal, 2007, 49, 289-301.	5.7	133
9	Phospholipase C epsilon: linking second messengers and small GTPases. Trends in Cell Biology, 2006, 16, 640-648.	7.9	132
10	Structural and Mechanistic Insights into Ras Association Domains of Phospholipase C Epsilon. Molecular Cell, 2006, 21, 495-507.	9.7	129
11	Dysfunction of phospholipase Cî³ in immune disorders and cancer. Trends in Biochemical Sciences, 2014, 39, 603-611.	7.5	107
12	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
13	RalA interacts with ZONAB in a cell density-dependent manner and regulates its transcriptional activity. EMBO Journal, 2005, 24, 54-62.	7.8	100
14	Multiplexed FRET to Image Multiple Signaling Events in Live Cells. Biophysical Journal, 2008, 95, L69-L71.	0.5	100
15	Association of Phosphatidylinositol 3-Kinase with Nuclear Transcription Sites in Higher Plants. Plant Cell, 2000, 12, 1679-1687.	6.6	87
16	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
17	Structural and Functional Integration of the PLCÎ³ Interaction Domains Critical for Regulatory Mechanisms and Signaling Deregulation. Structure, 2012, 20, 2062-2075.	3.3	77
18	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

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19	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
20	14-3-3 protein regulation of proton pumps and ion channels. Plant Molecular Biology, 2002, 50, 1041-1051.	3.9	58
21	Signaling properties and expression in normal and tumor tissues of two phospholipase C epsilon splice variants. Oncogene, 2005, 24, 90-100.	5.9	58
22	Characterization of Phospholipase CÎ³ Enzymes with Gain-of-Function Mutations. Journal of Biological Chemistry, 2009, 284, 23083-23093.	3.4	58
23	Slow vacuolar channels from barley mesophyll cells are regulated by 14-3-3 proteins. FEBS Letters, 2001, 488, 100-104.	2.8	57
24	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
25	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
26	High speed unsupervised fluorescence lifetime imaging confocal multiwell plate reader for high content analysis. Journal of Biophotonics, 2008, 1, 514-521.	2.3	53
27	Regulatory links between PLC enzymes and Ras superfamily GTPases: Signalling via PLCÉ›. Advances in Enzyme Regulation, 2009, 49, 54-58.	2.6	52
28	Crystal Structure of the Human, FIC-Domain Containing Protein HYPE and Implications for Its Functions. Structure, 2014, 22, 1831-1843.	3.3	48
29	Severe Autoinflammatory Manifestations and Antibody Deficiency Due to Novel Hypermorphic PLCG2 Mutations. Journal of Clinical Immunology, 2020, 40, 987-1000.	3.8	41
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	Structural insights and activating mutations in diverse pathologies define mechanisms of deregulation for phospholipase C gamma enzymes. EBioMedicine, 2020, 51, 102607.	6.1	31
32	ATP-dependent regulation of nuclear Ca2+levels in plant cells. FEBS Letters, 2000, 476, 145-149.	2.8	27
33	TREM2/PLCÎ³2 signalling in immune cells: function, structural insight, and potential therapeutic modulation. Molecular Neurodegeneration, 2021, 16, 22.	10.8	27
34	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
35	Membrane Environment Exerts an Important Influence on Rac-Mediated Activation of Phospholipase CÎ³2. Molecular and Cellular Biology, 2011, 31, 1240-1251.	2.3	24
36	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

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37	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
38	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
39	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
40	In vitro Reconstitution of Activation of PLCÎµ by Ras and Rho GTPases. Methods in Molecular Biology, 2009, 462, 1-11.	0.9	7
41	Characterization of the membrane interactions of phospholipase CÎ³ reveals key features of the active enzyme. Science Advances, 2022, 8, .	10.3	7
42	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
43	Backbone 1H, 13C, and 15N Resonance Assignments for the two 13ÂkD Ras Associating Domains (RA1 and) Tj ETQq1 1 0.784314 rgBT	2.8	3
44	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
45	Nuclear Ca2+-fluxes and phosphoinositides in plants. Biochemical Society Transactions, 1995, 23, 581S-581S.	3.4	1