

# Christopher B Marshall

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

3,105  
citations

156536

32  
h-index

182931

54  
g-index

61  
all docs

61  
docs citations

61  
times ranked

4421  
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of GTPase function by autophosphorylation. <i>Molecular Cell</i> , 2022, 82, 950-968.e14.	4.5	9
2	Hitting the hotspots. <i>Nature Chemical Biology</i> , 2022, 18, 578-579.	3.9	1
3	Structures of RGL1 RAS-Association Domain in Complex with KRAS and the Oncogenic G12V Mutant. <i>Journal of Molecular Biology</i> , 2022, 434, 167527.	2.0	4
4	Oncogenic KRAS G12D mutation promotes dimerization through a second, phosphatidylserine-dependent interface: a model for KRAS oligomerization. <i>Chemical Science</i> , 2021, 12, 12827-12837.	3.7	19
5	Tankyrase regulates epithelial lumen formation via suppression of Rab11 GEFs. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	6
6	The Q61H mutation decouples KRAS from upstream regulation and renders cancer cells resistant to SHP2 inhibitors. <i>Nature Communications</i> , 2021, 12, 6274.	5.8	22
7	Real-Time In-Cell NMR Reveals the Intracellular Modulation of GTP-Bound Levels of RAS. <i>Cell Reports</i> , 2020, 32, 108074.	2.9	26
8	NMR in integrated biophysical drug discovery for RAS: past, present, and future. <i>Journal of Biomolecular NMR</i> , 2020, 74, 531-554.	1.6	9
9	Multivalent assembly of KRAS with the RAS-binding and cysteine-rich domains of CRAF on the membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12101-12108.	3.3	46
10	Two Distinct Structures of Membrane-Associated Homodimers of GTP- and GDP-Bound KRAS4B Revealed by Paramagnetic Relaxation Enhancement. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11037-11045.	7.2	62
11	Calmodulin disrupts plasma membrane localization of farnesylated KRAS4b by sequestering its lipid moiety. <i>Science Signaling</i> , 2020, 13, .	1.6	23
12	Two Distinct Structures of Membrane-Associated Homodimers of GTP- and GDP-Bound KRAS4B Revealed by Paramagnetic Relaxation Enhancement. <i>Angewandte Chemie</i> , 2020, 132, 11130-11138.	1.6	5
13	A Non-Canonical Calmodulin Target Motif Comprising a Polybasic Region and Lipidated Terminal Residue Regulates Localization. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2751.	1.8	17
14	Spatiotemporal dynamics of GEF-H1 activation controlled by microtubule- and Src-mediated pathways. <i>Journal of Cell Biology</i> , 2019, 218, 3077-3097.	2.3	38
15	Expression and Purification of Calmodulin for NMR and Other Biophysical Applications. <i>Methods in Molecular Biology</i> , 2019, 1929, 207-221.	0.4	1
16	Tyrosyl phosphorylation of KRAS stalls GTPase cycle via alteration of switch I and II conformation. <i>Nature Communications</i> , 2019, 10, 224.	5.8	66
17	Real-Time NMR. , 2019, , 1-10.		0
18	Multiplexed Real-Time NMR GTPase Assay for Simultaneous Monitoring of Multiple Guanine Nucleotide Exchange Factor Activities from Human Cancer Cells and Organoids. <i>Journal of the American Chemical Society</i> , 2018, 140, 4473-4476.	6.6	9

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19	Inhibition of K-RAS4B by a Unique Mechanism of Action: Stabilizing Membrane-Dependent Occlusion of the Effector-Binding Site. <i>Cell Chemical Biology</i> , 2018, 25, 1327-1336.e4.	2.5	72
20	MARK3-mediated phosphorylation of ARHGEF2 couples microtubules to the actin cytoskeleton to establish cell polarity. <i>Science Signaling</i> , 2017, 10, .	1.6	52
21	Biochemical Classification of Disease-associated Mutants of RAS-like Protein Expressed in Many Tissues (RIT1). <i>Journal of Biological Chemistry</i> , 2016, 291, 15641-15652.	1.6	14
22	Multiple Calmodulin-binding Sites Positively and Negatively Regulate Arabidopsis CYCLIC NUCLEOTIDE-GATED CHANNEL12. <i>Plant Cell</i> , 2016, 28, tpc.00870.2015.	3.1	81
23	Point mutations of the mTOR-RHEB pathway in renal cell carcinoma. <i>Oncotarget</i> , 2015, 6, 17895-17910.	0.8	63
24	Calmodulin and STIM proteins: Two major calcium sensors in the cytoplasm and endoplasmic reticulum. <i>Biochemical and Biophysical Research Communications</i> , 2015, 460, 5-21.	1.0	61
25	Real-time NMR monitoring of biological activities in complex physiological environments. <i>Current Opinion in Structural Biology</i> , 2015, 32, 39-47.	2.6	63
26	Forkhead followed by disordered tail: The intrinsically disordered regions of FOXO3a. <i>Intrinsically Disordered Proteins</i> , 2015, 3, e1056906.	1.9	14
27	Oncogenic and RASopathy-associated K-RAS mutations relieve membrane-dependent occlusion of the effector-binding site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6625-6630.	3.3	191
28	p120RasGAP Is a Mediator of Rho Pathway Activation and Tumorigenicity in the DLD1 Colorectal Cancer Cell Line. <i>PLoS ONE</i> , 2014, 9, e86103.	1.1	15
29	Structure-guided Mutation of the Conserved G3-box Glycine in Rheb Generates a Constitutively Activated Regulator of Mammalian Target of Rapamycin (mTOR). <i>Journal of Biological Chemistry</i> , 2014, 289, 12195-12201.	1.6	18
30	The RhoGEF GEF-H1 Is Required for Oncogenic RAS Signaling via KSR-1. <i>Cancer Cell</i> , 2014, 25, 181-195.	7.7	76
31	Mechanistic insight into GPCR-mediated activation of the microtubule-associated RhoA exchange factor GEF-H1. <i>Nature Communications</i> , 2014, 5, 4857.	5.8	49
32	Structure and Function of the mTOR Activator Rheb. , 2014, , 281-324.		1
33	Transcriptional/epigenetic regulator CBP/p300 in tumorigenesis: structural and functional versatility in target recognition. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 3989-4008.	2.4	239
34	Membrane-Dependent Modulation of the mTOR Activator Rheb: NMR Observations of a GTPase Tethered to a Lipid-Bilayer Nanodisc. <i>Journal of the American Chemical Society</i> , 2013, 135, 3367-3370.	6.6	64
35	A Comparative CEST NMR Study of Slow Conformational Dynamics of Small GTPases Complexed with GTP and GTP Analogues. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10771-10774.	7.2	38
36	Calmodulin. , 2013, , 545-555.		3

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37	Structures of KIX domain of CBP in complex with two FOXO3a transactivation domains reveal promiscuity and plasticity in coactivator recruitment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6078-6083.	3.3	95
38	Probing the GTPase cycle with real-time NMR: GAP and GEF activities in cell extracts. <i>Methods</i> , 2012, 57, 473-485.	1.9	38
39	Antifreeze Protein from Freeze-Tolerant Grass Has a Beta-Roll Fold with an Irregularly Structured Ice-Binding Site. <i>Journal of Molecular Biology</i> , 2012, 416, 713-724.	2.0	120
40	Mechanistic Insight into the Microtubule and Actin Cytoskeleton Coupling through Dynein-Dependent RhoGEF Inhibition. <i>Molecular Cell</i> , 2012, 45, 642-655.	4.5	85
41	An Autoinhibited Noncanonical Mechanism of GTP Hydrolysis by Rheb Maintains mTORC1 Homeostasis. <i>Structure</i> , 2012, 20, 1528-1539.	1.6	31
42	Real-time NMR Study of Three Small GTPases Reveals That Fluorescent 2â€²(3â€²-O-(N-Methylanthraniloyl)-tagged Nucleotides Alter Hydrolysis and Exchange Kinetics. <i>Journal of Biological Chemistry</i> , 2010, 285, 5132-5136.	1.6	40
43	Real-time NMR Study of Guanine Nucleotide Exchange and Activation of RhoA by PDZ-RhoGEF. <i>Journal of Biological Chemistry</i> , 2010, 285, 5137-5145.	1.6	33
44	High water mobility on the ice-binding surface of a hyperactive antifreeze protein. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10189.	1.3	52
45	Characterization of the Intrinsic and TSC2-GAPâ€œRegulated GTPase Activity of Rheb by Real-Time NMR. <i>Science Signaling</i> , 2009, 2, ra3.	1.6	55
46	Synergistic Interplay between Promoter Recognition and CBP/p300 Coactivator Recruitment by FOXO3a. <i>ACS Chemical Biology</i> , 2009, 4, 1017-1027.	1.6	36
47	Direct Visualization of Spruce Budworm Antifreeze Protein Interacting with Ice Crystals: Basal Plane Affinity Confers Hyperactivity. <i>Biophysical Journal</i> , 2008, 95, 333-341.	0.2	104
48	Biochemical and Structural Characterization of an Intramolecular Interaction in FOXO3a and Its Binding with p53. <i>Journal of Molecular Biology</i> , 2008, 384, 590-603.	2.0	102
49	Hyperactive Antifreeze Protein from Fish Contains Multiple Ice-Binding Sites. <i>Biochemistry</i> , 2008, 47, 2051-2063.	1.2	34
50	Fluorescence Microscopy Evidence for Quasi-Permanent Attachment of Antifreeze Proteins to Ice Surfaces. <i>Biophysical Journal</i> , 2007, 92, 3663-3673.	0.2	107
51	The basis for hyperactivity of antifreeze proteins. <i>Cryobiology</i> , 2006, 53, 229-239.	0.3	225
52	Hyperactive antifreeze protein in flounder species. The sole freeze protectant in American plaice. <i>FEBS Journal</i> , 2005, 272, 4439-4449.	2.2	23
53	Hyperactive Antifreeze Protein from Winter Flounder Is a Very Long Rod-like Dimer of Î±-Helices*. <i>Journal of Biological Chemistry</i> , 2005, 280, 17920-17929.	1.6	73
54	Hyperactive antifreeze protein in a fish. <i>Nature</i> , 2004, 429, 153-153.	13.7	110

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55	Enhancing the Activity of a $\beta$ -Helical Antifreeze Protein by the Engineered Addition of Coils. <i>Biochemistry</i> , 2004, 43, 11637-11646.	1.2	84
56	Partitioning of Fish and Insect Antifreeze Proteins into Ice Suggests They Bind with Comparable Affinity. <i>Biochemistry</i> , 2004, 43, 148-154.	1.2	33
57	A facile method for determining ice recrystallization inhibition by antifreeze proteins. <i>Biochemical and Biophysical Research Communications</i> , 2003, 311, 1041-1046.	1.0	77
58	Identification of the ice-binding face of antifreeze protein from <i>Tenebrio molitor</i> . <i>FEBS Letters</i> , 2002, 529, 261-267.	1.3	66