

Mohammad R Ahmadian

List of Publications by Year in descending order

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66
papers

5,274
citations

147801

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102487

66
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all docs

67
docs citations

67
times ranked

6846
citing authors

#	ARTICLE	IF	CITATIONS
1	KRAS-related long noncoding RNAs in human cancers. <i>Cancer Gene Therapy</i> , 2022, 29, 418-427.	4.6	8
2	Inhibition of the RacGEF VAV3 by the small molecule IODVA1 impedes RAC signaling and overcomes resistance to tyrosine kinase inhibition in acute lymphoblastic leukemia. <i>Leukemia</i> , 2022, 36, 637-647.	7.2	5
3	Physical Interaction between Embryonic Stem Cell-Expressed Ras (ERas) and Arginase-1 in Quiescent Hepatic Stellate Cells. <i>Cells</i> , 2022, 11, 508.	4.1	2
4	The Pseudo-Natural Product Rhonin Targets RHO GDI. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	11
5	Allosteric regulation of GRB2 modulates RAS activation. <i>Small GTPases</i> , 2022, 13, 282-286.	1.6	3
6	Novel FMRP interaction networks linked to cellular stress. <i>FEBS Journal</i> , 2021, 288, 837-860.	4.7	31
7	Accessory proteins of the RAS-MAPK pathway: moving from the side line to the front line. <i>Communications Biology</i> , 2021, 4, 696.	4.4	32
8	Spotlight on Accessory Proteins: RTK-RAS-MAPK Modulators as New Therapeutic Targets. <i>Biomolecules</i> , 2021, 11, 895.	4.0	4
9	The RHO Family GTPases: Mechanisms of Regulation and Signaling. <i>Cells</i> , 2021, 10, 1831.	4.1	113
10	The intramolecular allostery of GRB2 governing its interaction with SOS1 is modulated by phosphotyrosine ligands. <i>Biochemical Journal</i> , 2021, 478, 2793-2809.	3.7	15
11	Selective inhibition of IL-6 trans-signaling by a miniaturized, optimized chimeric soluble gp130 inhibits T cell expansion. <i>Science Signaling</i> , 2021, 14, .	3.6	13
12	A comprehensive analysis of RAS-effector interactions reveals interaction hotspots and new binding partners. <i>Journal of Biological Chemistry</i> , 2021, 296, 100626.	3.4	14
13	RHO GTPase-Related Long Noncoding RNAs in Human Cancers. <i>Cancers</i> , 2021, 13, 5386.	3.7	7
14	Electrostatic Forces Mediate the Specificity of RHO GTPase-GDI Interactions. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12493.	4.1	6
15	Selectivity Determinants of RHO GTPase Binding to IQGAPs. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12596.	4.1	6
16	New model for the interaction of IQGAP1 with CDC42 and RAC1. <i>Small GTPases</i> , 2020, 11, 16-22.	1.6	17
17	Activating MRAS mutations cause Noonan syndrome associated with hypertrophic cardiomyopathy. <i>Human Molecular Genetics</i> , 2020, 29, 1772-1783.	2.9	30
18	Fragile X mental retardation protein protects against tumour necrosis factor-mediated cell death and liver injury. <i>Gut</i> , 2020, 69, 133-145.	12.1	14

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19	Subcellular Localization and Mitotic Interactome Analyses Identify SIRT4 as a Centrosomally Localized and Microtubule Associated Protein. <i>Cells</i> , 2020, 9, 1950.	4.1	19
20	MRI-based molecular imaging of epicardium-derived stromal cells (EpiSC) by peptide-mediated active targeting. <i>Scientific Reports</i> , 2020, 10, 21669.	3.3	4
21	Rigosertib potently protects against colitis-associated intestinal fibrosis and inflammation by regulating PI3K/AKT and NF- κ B signaling pathways. <i>Life Sciences</i> , 2020, 249, 117470.	4.3	34
22	A novel disorder involving dyshematopoiesis, inflammation, and HLH due to aberrant CDC42 function. <i>Journal of Experimental Medicine</i> , 2019, 216, 2778-2799.	8.5	132
23	Activating Mutations of RRAS2 Are a Rare Cause of Noonan Syndrome. <i>American Journal of Human Genetics</i> , 2019, 104, 1223-1232.	6.2	43
24	From basic researches to new achievements in therapeutic strategies of KRAS-driven cancers. <i>Cancer Biology and Medicine</i> , 2019, 16, 435-461.	3.0	15
25	Structural fingerprints, interactions, and signaling networks of RAS family proteins beyond RAS isoforms. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2018, 53, 130-156.	5.2	34
26	Functional Dysregulation of CDC42 Causes Diverse Developmental Phenotypes. <i>American Journal of Human Genetics</i> , 2018, 102, 309-320.	6.2	138
27	IL-2 Inducible Kinase ITK is Critical for HIV-1 Infection of Jurkat T-cells. <i>Scientific Reports</i> , 2018, 8, 3217.	3.3	7
28	bFGF-mediated pluripotency maintenance in human induced pluripotent stem cells is associated with NRAS-MAPK signaling. <i>Cell Communication and Signaling</i> , 2018, 16, 96.	6.5	38
29	Structural snapshots of RAF kinase interactions. <i>Biochemical Society Transactions</i> , 2018, 46, 1393-1406.	3.4	28
30	Aberrant <i>HRAS</i> transcript processing underlies a distinctive phenotype within the RASopathy clinical spectrum. <i>Human Mutation</i> , 2017, 38, 798-804.	2.5	14
31	Rho inhibition by lovastatin affects apoptosis and DSB repair of primary human lung cells in vitro and lung tissue in vivo following fractionated irradiation. <i>Cell Death and Disease</i> , 2017, 8, e2978-e2978.	6.3	24
32	The RAS-Effector Interface: Isoform-Specific Differences in the Effector Binding Regions. <i>PLoS ONE</i> , 2016, 11, e0167145.	2.5	55
33	IQGAP1 Interaction with RHO Family Proteins Revisited. <i>Journal of Biological Chemistry</i> , 2016, 291, 26364-26376.	3.4	26
34	Galectin-1 dimers can scaffold Raf-effectors to increase H-ras nanoclustering. <i>Scientific Reports</i> , 2016, 6, 24165.	3.3	65
35	Deciphering the Molecular and Functional Basis of RHOGAP Family Proteins. <i>Journal of Biological Chemistry</i> , 2016, 291, 20353-20371.	3.4	87
36	The Role of Embryonic Stem Cell-expressed RAS (ERAS) in the Maintenance of Quiescent Hepatic Stellate Cells. <i>Journal of Biological Chemistry</i> , 2016, 291, 8399-8413.	3.4	26

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37	Biophysical Characterization of Nucleophosmin Interactions with Human Immunodeficiency Virus Rev and Herpes Simplex Virus US11. PLoS ONE, 2015, 10, e0143634.	2.5	27
38	The Function of Embryonic Stem Cell-expressed RAS (E-RAS), a Unique RAS Family Member, Correlates with Its Additional Motifs and Its Structural Properties. Journal of Biological Chemistry, 2015, 290, 15892-15903.	3.4	15
39	Juvenile myelomonocytic leukemia displays mutations in components of the RAS pathway and the PRC2 network. Nature Genetics, 2015, 47, 1334-1340.	21.4	152
40	Activating mutations in RRAS underlie a phenotype within the RASopathy spectrum and contribute to leukaemogenesis. Human Molecular Genetics, 2014, 23, 4315-4327.	2.9	114
41	Functional Cross-talk between Ras and Rho Pathways. Journal of Biological Chemistry, 2014, 289, 6839-6849.	3.4	31
42	Subcellular Fractionation and Localization Studies Reveal a Direct Interaction of the Fragile X Mental Retardation Protein (FMRP) with Nucleolin. PLoS ONE, 2014, 9, e91465.	2.5	51
43	Liposome Reconstitution and Modulation of Recombinant Prenylated Human Rac1 by GEFs, GDI1 and Pak1. PLoS ONE, 2014, 9, e102425.	2.5	13
44	Interaction characteristics of Plexin-B1 with Rho family proteins. Biochemical and Biophysical Research Communications, 2013, 434, 785-790.	2.1	16
45	New insight into the molecular switch mechanism of human Rho family proteins: shifting a paradigm. Biological Chemistry, 2013, 394, 89-95.	2.5	35
46	Deciphering the Molecular and Functional Basis of Dbl Family Proteins. Journal of Biological Chemistry, 2013, 288, 4486-4500.	3.4	91
47	Biochemical Assays to Characterize Rho GTPases. Methods in Molecular Biology, 2012, 827, 37-58.	0.9	24
48	Germline KRAS mutations cause aberrant biochemical and physical properties leading to developmental disorders. Human Mutation, 2011, 32, 33-43.	2.5	126
49	Mechanistic Insights into Specificity, Activity, and Regulatory Elements of the Regulator of G-protein Signaling (RGS)-containing Rho-specific Guanine Nucleotide Exchange Factors (GEFs) p115, PDZ-RhoGEF (PRG), and Leukemia-associated RhoGEF (LARG). Journal of Biological Chemistry, 2011, 286, 18202-18212.	3.4	58
50	A restricted spectrum of NRAS mutations causes Noonan syndrome. Nature Genetics, 2010, 42, 27-29.	21.4	271
51	In Vitro GEF and GAP Assays. Current Protocols in Cell Biology, 2009, 43, Unit 14.9.	2.3	34
52	The C2 domain of SynGAP is essential for stimulation of the Rap GTPase reaction. EMBO Reports, 2008, 9, 350-355.	4.5	82
53	Purification and Biochemical Properties of Rac1, 2, 3 and the Splice Variant Rac1b. Methods in Enzymology, 2006, 406, 1-11.	1.0	22
54	Guanine Nucleotide Exchange Factors Operate by a Simple Allosteric Competitive Mechanism. Biochemistry, 2005, 44, 15423-15429.	2.5	49

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55	An Electrostatic Steering Mechanism of Cdc42 Recognition by Wiskott-Aldrich Syndrome Proteins. <i>Molecular Cell</i> , 2005, 20, 313-324.	9.7	117
56	Fluorescence approaches for monitoring interactions of Rho GTPases with nucleotides, regulators, and effectors. <i>Methods</i> , 2005, 37, 173-182.	3.8	42
57	Alternative Splicing of Rac1 Generates Rac1b, a Self-activating GTPase. <i>Journal of Biological Chemistry</i> , 2004, 279, 4743-4749.	3.4	127
58	Structural Insights into the Interaction of ROCK1 with the Switch Regions of RhoA. <i>Journal of Biological Chemistry</i> , 2004, 279, 7098-7104.	3.4	116
59	Always look on the bright site of Rho: structural implications for a conserved intermolecular interface. <i>EMBO Reports</i> , 2004, 5, 1130-1136.	4.5	141
60	Structural Fingerprints of the Ras-GTPase Activating Proteins Neurofibromin and p120GAP. <i>Journal of Molecular Biology</i> , 2003, 329, 699-710.	4.2	58
61	Comparative functional analysis of the Rac GTPases. <i>FEBS Letters</i> , 2003, 555, 556-560.	2.8	65
62	Crystal structure of Rnd3/RhoE: functional implications1. <i>FEBS Letters</i> , 2002, 525, 100-104.	2.8	32
63	GTPase-activating proteins: helping hands to complement an active site. <i>Trends in Biochemical Sciences</i> , 1998, 23, 257-262.	7.5	395
64	Individual Rate Constants for the Interaction of Ras Proteins with GTPase-Activating Proteins Determined by Fluorescence Spectroscopy. <i>Biochemistry</i> , 1997, 36, 4535-4541.	2.5	135
65	The Ras-RasGAP Complex: Structural Basis for GTPase Activation and Its Loss in Oncogenic Ras Mutants. <i>Science</i> , 1997, 277, 333-338.	12.6	1,378
66	Confirmation of the arginine-finger hypothesis for the GAP-stimulated GTP-hydrolysis reaction of Ras. <i>Nature Structural Biology</i> , 1997, 4, 686-689.	9.7	333