Richard A Kahn

List of Publications by Year in descending order

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138 papers 8,590 citations

44069 48 h-index 48315 88 g-index

147 all docs

147 docs citations

times ranked

147

6761 citing authors

#	Article	IF	CITATIONS
1	ADP-Ribosylation factor is a subunit of the coat of Golgi-derived COP-coated vesicles: A novel role for a GTP-binding protein. Cell, 1991, 67, 239-253.	28.9	622
2	A Bacterial Guanine Nucleotide Exchange Factor Activates ARF on <i>Legionella</i> Phagosomes. Science, 2002, 295, 679-682.	12.6	530
3	Structure of the human ADP-ribosylation factor 1 complexed with GDP. Nature, 1994, 372, 704-708.	27.8	294
4	A C-terminal translocation signal required for Dot/Icm-dependent delivery of the Legionella RalF protein to host cells. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 826-831.	7.1	262
5	A Family of ADP-Ribosylation Factor Effectors That Can Alter Membrane Transport through the <i>trans</i> -Golgi. Molecular Biology of the Cell, 2000, 11, 1241-1255.	2.1	258
6	Arl13b regulates ciliogenesis and the dynamic localization of Shh signaling proteins. Molecular Biology of the Cell, 2011, 22, 4694-4703.	2.1	237
7	Nomenclature for the human Arf family of GTP-binding proteins: ARF, ARL, and SAR proteins. Journal of Cell Biology, 2006, 172, 645-650.	5.2	232
8	Isoform-selective Effects of the Depletion of ADP-Ribosylation Factors 1–5 on Membrane Traffic. Molecular Biology of the Cell, 2005, 16, 4495-4508.	2.1	227
9	Functional genomic analysis of the ADPâ€ribosylation factor family of GTPases: phylogeny among diverse eukaryotes and function in <i>C. elegans</i> . FASEB Journal, 2004, 18, 1834-1850.	0.5	214
10	Intracellular Distribution of Arf Proteins in Mammalian Cells. Journal of Biological Chemistry, 1996, 271, 21767-21774.	3.4	209
11	Mammalian Cdc42 Is a Brefeldin A-sensitive Component of the Golgi Apparatus. Journal of Biological Chemistry, 1996, 271, 26850-26854.	3.4	190
12	ARF GTPases and their GEFs and GAPs: concepts and challenges. Molecular Biology of the Cell, 2019, 30, 1249-1271.	2.1	188
13	ARF signaling: A potential role for phospholipase D in membrane traffic. Cell, 1993, 75, 1045-1048.	28.9	172
14	Receptor and protein kinase C-mediated regulation of ARF binding to the Golgi complex. Nature, 1993, 364, 818-821.	27.8	152
15	Arl2 and Arl3 Regulate Different Microtubule-dependent Processes. Molecular Biology of the Cell, 2006, 17, 2476-2487.	2.1	152
16	ADP-ribosylation factors (ARFs) and ARF-like 1 (ARL1) Have Both Specific and Shared Effectors. Journal of Biological Chemistry, 2001, 276, 22826-22837.	3.4	148
17	Consensus nomenclature for the human ArfGAP domain-containing proteins. Journal of Cell Biology, 2008, 182, 1039-1044.	5.2	144
18	Two distinct members of the ADP-ribosylation factor family of GTP-binding proteins regulate cell-free intra-golgi transport. Cell, 1992, 70, 69-79.	28.9	137

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19	Partial Purification and Characterization of Arf-sensitive Phospholipase D from Porcine Brain. Journal of Biological Chemistry, 1995, 270, 14935-14943.	3.4	131
20	Dynamic structure of membrane-anchored Arf•GTP. Nature Structural and Molecular Biology, 2010, 17, 876-881.	8.2	125
21	The Myristoylated Amino Terminus of ADP-ribosylation Factor 1 Is a Phospholipid- and GTP-sensitive Switch. Journal of Biological Chemistry, 1995, 270, 14809-14815.	3.4	122
22	The ras superfamily of GTPâ€binding proteins: guidelines on nomenclature. FASEB Journal, 1992, 6, 2512-2513.	0.5	116
23	Structure and Membrane Interaction of Myristoylated ARF1. Structure, 2009, 17, 79-87.	3.3	104
24	ADP-ribosylation Factor Translocation Correlates with Potentiation of GTPÎ ³ S-stimulated Phospholipase D Activity in Membrane Fractions of HL-60 Cells. Journal of Biological Chemistry, 1995, 270, 22795-22800.	3.4	93
25	The Structure of RalF, an ADP-ribosylation Factor Guanine Nucleotide Exchange Factor from Legionella pneumophila, Reveals the Presence of a Cap over the Active Site. Journal of Biological Chemistry, 2005, 280, 1392-1400.	3.4	92
26	A Family of Arf Effectors Defined as Suppressors of the Loss of Arf Function in the Yeast Saccharomyces cerevisiae. Journal of Biological Chemistry, 1998, 273, 19792-19796.	3.4	86
27	ARL2 and BART Enter Mitochondria and Bind the Adenine Nucleotide Transporter. Molecular Biology of the Cell, 2002, 13, 71-83.	2.1	86
28	Munc18 Interacting Proteins. Journal of Biological Chemistry, 2003, 278, 36032-36040.	3.4	84
29	Mutational Analysis of Saccharomyces cerevisiae ARF1. Journal of Biological Chemistry, 1995, 270, 143-150.	3.4	81
30	[34] Preparation of recombinant ADP-ribosylation factor. Methods in Enzymology, 1992, 219, 362-369.	1.0	78
31	Structuring Detergents for Extracting and Stabilizing Functional Membrane Proteins. PLoS ONE, 2011, 6, e18036.	2.5	77
32	Genetic Interactions in Yeast Between Ypt GTPases and Arf Guanine Nucleotide Exchangers. Genetics, 1999, 152, 1543-1556.	2.9	76
33	ELMOD2 Is an Arl2 GTPase-activating Protein That Also Acts on Arfs. Journal of Biological Chemistry, 2007, 282, 17568-17580.	3.4	72
34	Mutations in ARL2BP, Encoding ADP-Ribosylation-Factor-Like 2 Binding Protein, Cause Autosomal-Recessive Retinitis Pigmentosa. American Journal of Human Genetics, 2013, 93, 321-329.	6.2	67
35	Arl13b regulates Shh signaling from both inside and outside the cilium. Molecular Biology of the Cell, 2016, 27, 3780-3790.	2.1	67
36	Biallelic Mutations in TBCD, Encoding the Tubulin Folding Cofactor D, Perturb Microtubule Dynamics and Cause Early-Onset Encephalopathy. American Journal of Human Genetics, 2016, 99, 962-973.	6.2	66

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37	Arl13b and the exocyst interact synergistically in ciliogenesis. Molecular Biology of the Cell, 2016, 27, 308-320.	2.1	66
38	Arf proteins bind to mitotic kinesin-like protein $1\ (MKLP1)$ in a GTP-dependent fashion. Cytoskeleton, 1999, 44, 119-132.	4.4	64
39	Regulating the large Sec7 ARF guanine nucleotide exchange factors: the when, where and how of activation. Cellular and Molecular Life Sciences, 2014, 71, 3419-3438.	5.4	64
40	Models for the functions of Arf GAPs. Seminars in Cell and Developmental Biology, 2011, 22, 3-9.	5.0	62
41	Structures of Yeast ARF2 and ARL1. Journal of Biological Chemistry, 2001, 276, 42477-42484.	3.4	60
42	Toward a model for Arf GTPases as regulators of traffic at the Golgi. FEBS Letters, 2009, 583, 3872-3879.	2.8	60
43	ARL13B regulates Sonic hedgehog signaling from outside primary cilia. ELife, 2020, 9, .	6.0	60
44	The ARF-like 2 (ARL2)-binding Protein, BART. Journal of Biological Chemistry, 1999, 274, 27553-27561.	3.4	56
45	Cytosolic Arl2 Is Complexed with Cofactor D and Protein Phosphatase 2A. Journal of Biological Chemistry, 2003, 278, 40829-40836.	3.4	56
46	ADP-Ribosylation Factors Do Not Activate Yeast Phospholipase Ds but Are Required for Sporulation. Molecular Biology of the Cell, 1998, 9, 2025-2036.	2.1	55
47	ARL1 and membrane traffic inSaccharomyces cerevisiae. Yeast, 2002, 19, 1039-1056.	1.7	54
48	ELMO Domains, Evolutionary and Functional Characterization of a Novel GTPase-activating Protein (GAP) Domain for Arf Protein Family GTPases. Journal of Biological Chemistry, 2012, 287, 39538-39553.	3.4	54
49	Detection of the major pertussis toxin substrate of human leukocytes with antisera raised against synthetic peptides. FEBS Letters, 1986, 209, 352-356.	2.8	53
50	Cellular hijacking: a common strategy for microbial infection. Trends in Biochemical Sciences, 2002, 27, 308-314.	7.5	53
51	Mint $3/X11\hat{l}^3$ Is an ADP-Ribosylation Factor-dependent Adaptor that Regulates the Traffic of the Alzheimer's Precursor Protein from the <i>Trans</i> -Golgi Network. Molecular Biology of the Cell, 2008, 19, 51-64.	2.1	53
52	Modifications to the C-Terminus of Arf1 Alter Cell Functions and Protein Interactions. Traffic, 2010, 11, 732-742.	2.7	53
53	Several ADP-ribosylation Factor (Arf) Isoforms Support COPI Vesicle Formation. Journal of Biological Chemistry, 2011, 286, 35634-35642.	3.4	53
54	GGA1-mediated endocytic traffic of LR11/SorLA alters APP intracellular distribution and amyloid- \hat{l}^2 production. Molecular Biology of the Cell, 2012, 23, 2645-2657.	2.1	53

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55	Biochemical characterization of purified mammalian ARL13B protein indicates that it is an atypical GTPase and ARL3 guanine nucleotide exchange factor (GEF). Journal of Biological Chemistry, 2017, 292, 11091-11108.	3.4	51
56	Rho Kinase II Phosphorylation of the Lipoprotein Receptor LR11/SORLA Alters Amyloid- \hat{l}^2 Production. Journal of Biological Chemistry, 2011, 286, 6117-6127.	3.4	50
57	An Alteration in ELMOD3, an Arl2 GTPase-Activating Protein, Is Associated with Hearing Impairment in Humans. PLoS Genetics, 2013, 9, e1003774.	3.5	48
58	Characterization of Recombinant ELMOD (Cell Engulfment and Motility Domain) Proteins as GTPase-activating Proteins (GAPs) for ARF Family GTPases. Journal of Biological Chemistry, 2014, 289, 11111-11121.	3.4	48
59	LRRK2 autophosphorylation enhances its GTPase activity. FASEB Journal, 2016, 30, 336-347.	0.5	48
60	ADP Ribosylation Factors 1 and 4 and Group VIA Phospholipase A ₂ Regulate Morphology and Intraorganellar Traffic in the Endoplasmic Reticulum–Golgi Intermediate Compartment. Molecular Biology of the Cell, 2010, 21, 4130-4140.	2.1	47
61	[16] Preparation of recombinant ADP-ribosylation factor. Methods in Enzymology, 1995, 257, 128-135.	1.0	44
62	Effects of Activated ADP-ribosylation Factors on Golgi Morphology Require neither Activation of Phospholipase D1 nor Recruitment of Coatomer. Journal of Biological Chemistry, 2000, 275, 4022-4032.	3.4	42
63	[31] Myristoylation and ADP-ribosylation factor function. Methods in Enzymology, 1995, 250, 394-405.	1.0	41
64	A Trimer Consisting of the Tubulin-specific Chaperone D (TBCD), Regulatory GTPase ARL2, and \hat{l}^2 -Tubulin Is Required for Maintaining the Microtubule Network. Journal of Biological Chemistry, 2017, 292, 4336-4349.	3.4	41
65	Four ARF GAPs in Saccharomyces cerevisiae have both overlapping and distinct functions. Yeast, 2003, 20, 315-330.	1.7	40
66	Cofactor D Functions as a Centrosomal Protein and Is Required for the Recruitment of the \hat{I}^3 -Tubulin Ring Complex at Centrosomes and Organization of the Mitotic Spindle. Journal of Biological Chemistry, 2008, 283, 7155-7165.	3.4	40
67	The ARL2 GTPase Is Required for Mitochondrial Morphology, Motility, and Maintenance of ATP Levels. PLoS ONE, 2014, 9, e99270.	2.5	38
68	A Role for Cargo in Arf-dependent Adaptor Recruitment. Journal of Biological Chemistry, 2013, 288, 14788-14804.	3.4	37
69	Ancient Complexity, Opisthokont Plasticity, and Discovery of the 11th Subfamily of Arf <scp>GAP</scp> Proteins. Traffic, 2013, 14, 636-649.	2.7	36
70	The Capping Domain in RalF Regulates Effector Functions. PLoS Pathogens, 2012, 8, e1003012.	4.7	35
71	Effectors Increase the Affinity of ADP-ribosylation Factor for GTP to Increase Binding. Journal of Biological Chemistry, 2000, 275, 13465-13475.	3.4	31
72	Activation of the Luteinizing Hormone/Choriogonadotropin Hormone Receptor Promotes ADP Ribosylation Factor 6 Activation in Porcine Ovarian Follicular Membranes. Journal of Biological Chemistry, 2001, 276, 33773-33781.	3.4	31

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73	Recruitment of the Mint3 Adaptor Is Necessary for Export of the Amyloid Precursor Protein (APP) from the Golgi Complex. Journal of Biological Chemistry, 2013, 288, 28567-28580.	3.4	31
74	Interaction of Fapp1 with Arf1 and PI4P at a Membrane Surface: An Example of Coincidence Detection. Structure, 2014, 22, 421-430.	3.3	31
75	The ARF guanine nucleotide exchange factor GBF1 is targeted to Golgi membranes through a PIP-binding domain. Journal of Cell Science, 2018, 131, .	2.0	30
76	[20] Quantitation and purification of ADP-ribosylation factor. Methods in Enzymology, 1991, 195, 233-242.	1.0	29
77	ARF family GTPases with links to cilia. American Journal of Physiology - Cell Physiology, 2020, 319, C404-C418.	4.6	29
78	Novel Interaction between the M4 Muscarinic Acetylcholine Receptor and Elongation Factor 1A2. Journal of Biological Chemistry, 2002, 277, 29268-29274.	3.4	28
79	Genetic interactions linkARF1,YPT31/32 andTRS130. Yeast, 2002, 19, 1075-1086.	1.7	28
80	Coexpression of Proteins with Methionine Aminopeptidase/or N-Myristoyltransferase in Escherichia coli to Increase Acylation Homogeneity of Protein Preparations. Methods in Enzymology, 2002, 344, 186-193.	1.0	26
81	Compositional complexity of rods and rings. Molecular Biology of the Cell, 2018, 29, 2303-2316.	2.1	23
82	Translocation of Arf1 to the Secretory Granules in Rat Parotid Acinar Cells. Archives of Biochemistry and Biophysics, 1998, 357, 147-154.	3.0	21
83	ARF Binds the C-Terminal Region of theEscherichiacoliHeat-Labile Toxin (LTA1) and Competes for the Binding of LTA2. Biochemistry, 2001, 40, 4560-4568.	2.5	21
84	Conformational Changes in Human Arf1 on Nucleotide Exchange and Deletion of Membrane-binding Elements. Journal of Biological Chemistry, 2004, 279, 48307-48318.	3.4	21
85	Ancient complement and lineage-specific evolution of the Sec7 ARF GEF proteins in eukaryotes. Molecular Biology of the Cell, 2019, 30, 1846-1863.	2.1	21
86	ELMOD2 regulates mitochondrial fusion in a mitofusin-dependent manner, downstream of ARL2. Molecular Biology of the Cell, 2019, 30, 1198-1213.	2.1	20
87	Roles for ELMOD2 and Rootletin in ciliogenesis. Molecular Biology of the Cell, 2021, 32, 800-822.	2.1	20
88	Computational method for calculating fluorescence intensities within three-dimensional structures in cells. Cellular Logistics, 2012, 2, 176-188.	0.9	19
89	Oligomerization of the Sec7 domain Arf guanine nucleotide exchange factor GBF1 is dispensable for Golgi localization and function but regulates degradation. American Journal of Physiology - Cell Physiology, 2016, 310, C456-C469.	4.6	19
90	Structural Perturbations in Human ADP Ribosylation Factor-1 Accompanying the Binding of Phosphatidylinositidesâ€. Biochemistry, 2004, 43, 15393-15403.	2.5	18

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91	GAPs. Cellular Logistics, 2011, 1, 49-51.	0.9	18
92	Nucleotide Binding to ARL2 in the TBCD \hat{a}^{TM} ARL2 \hat{a}^{TM} \hat{l}^2 -Tubulin Complex Drives Conformational Changes in \hat{l}^2 -Tubulin. Journal of Molecular Biology, 2017, 429, 3696-3716.	4.2	18
93	The ARL2 GTPase regulates mitochondrial fusion from the intermembrane space. Cellular Logistics, 2017, 7, e1340104.	0.9	18
94	A Eukaryote-Wide Perspective on the Diversity and Evolution of the ARF GTPase Protein Family. Genome Biology and Evolution, $2021,13,1$	2.5	18
95	The abundance of the ARL2 GTPase and its GAP, ELMOD2, at mitochondria are modulated by the fusogenic activity of mitofusins and stressors. PLoS ONE, 2017, 12, e0175164.	2.5	18
96	Multiple Phosphorylation Events Regulate the Subcellular Localization of GGA1. Traffic, 2004, 5, 102-116.	2.7	17
97	Higher order signaling: ARL2 as regulator of both mitochondrial fusion and microtubule dynamics allows integration of 2 essential cell functions. Small GTPases, 2016, 7, 188-196.	1.6	17
98	Rapid arrest of axon elongation by brefeldin A: A role for the small GTP-binding protein ARF in neuronal growth cones., 1999, 38, 105-115.		15
99	Assays Used in the Analysis of Arl2 and Its Binding Partners. Methods in Enzymology, 2005, 404, 453-467.	1.0	14
100	The ARF GAP ELMOD2 acts with different GTPases to regulate centrosomal microtubule nucleation and cytokinesis. Molecular Biology of the Cell, 2020, 31, 2070-2091.	2.1	14
101	The Escherichia coli Heat Labile Toxin Binds to Golgi Membranes and Alters Golgi and Cell Morphologies Using ADP-ribosylation Factor-dependent Processes. Journal of Biological Chemistry, 2001, 276, 25014-25021.	3.4	13
102	Effects of acid phospholipids on ARF activities: Potential roles in membrane traffic. Journal of Lipid Mediators and Cell Signalling, 1996, 14, 209-214.	0.9	12
103	Residues forming a hydrophobic pocket in ARF3 are determinants of GDP dissociation and effector interactions. FEBS Letters, 2000, 487, 252-256.	2.8	12
104	Homozygous Variant in ARL3 Causes Autosomal Recessive Cone Rod Dystrophy., 2019, 60, 4811.		12
105	Plasmids for variable expression of proteins targeted to the mitochondrial matrix or intermembrane space. Cellular Logistics, 2016, 6, e1247939.	0.9	11
106	Arf4. The AFCS-nature Molecule Pages, 0, , .	0.2	11
107	Arf-like protein 1. The AFCS-nature Molecule Pages, 0, , .	0.2	11
108	Arf-like protein 2. The AFCS-nature Molecule Pages, 0, , .	0.2	11

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109	Phylogenetic profiling and cellular analyses of ARL16 reveal roles in traffic of IFT140 and INPP5E. Molecular Biology of the Cell, 2022, 33, mbcE21100509T.	2.1	10
110	ADP-Ribosylation Factor of Adenylyl Cyclase: A 21-kDa GTP-Binding Protein. , 1990, , 201-214.		9
111	Use of a Grant Writing Class in Training <scp>PhD</scp> Students. Traffic, 2016, 17, 803-814.	2.7	9
112	A novel homozygous ARL13B variant in patients with Joubert syndrome impairs its guanine nucleotide-exchange factor activity. European Journal of Human Genetics, 2017, 25, 1324-1334.	2.8	9
113	Characterization of a GTP-binding protein in the ADP-ribosylation factor subfamily from Leishmania tarentolae. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1998, 1442, 347-352.	2.4	8
114	Reverse Two-Hybrid Techniques in the Yeast <i>Saccharomyces cerevisiae., 2004, 261, 313-326.</i>		8
115	Purification of a synthetic myristylated peptide by counter-current chromatography. Journal of Chromatography A, 1991, 538, 141-147.	3.7	6
116	1H, 15N and 13C assignments of full length human ADP ribosylation factor 1 (ARF1) using triple resonance connectivities and dipolar couplings. Journal of Biomolecular NMR, 2002, 23, 253-254.	2.8	6
117	ARF-Like (ARL) Proteins. , 2014, , 215-251.		6
118	Mistakes in translation: Reflections on mechanism. PLoS ONE, 2017, 12, e0180566.	2.5	6
119	Cloning and sequence of ADP-ribosylation factor 1 (ARF1) fromSchizosaccharomyces pombe. Yeast, 1993, 9, 923-927.	1.7	5
120	Assays of ADP-Ribosylation factor Function. Methods in Enzymology, 2002, 345, 359-370.	1.0	5
121	The Arf Family Tree. , 2004, , 1-21.		5
122	The ARF GAPs ELMOD1 and ELMOD3 act at the Golgi and cilia to regulate ciliogenesis and ciliary protein traffic. Molecular Biology of the Cell, 2022, 33, mbcE21090443.	2.1	5
123	A PH Domain with Dual Phospholipid Binding Sites Regulates the ARF GAP, ASAP1. Structure, 2015, 23, 1971-1973.	3.3	4
124	Response to Chabre et al Trends in Biochemical Sciences, 1998, 23, 99.	7. 5	3
125	Is the model of signal amplification by GPCRs/GEFs activating multiple GTPases relevant to a broad spectrum of heterotrimeric and RAS superfamily GTPases?. Cellular Logistics, 2014, 4, e943602.	0.9	3
126	Arf proteins bind to mitotic kinesin-like protein 1 (MKLP1) in a GTP-dependent fashion. , 0, .		2

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127	Kinetic and cell-based analyses of GTPase regulators. Cellular Logistics, 2012, 2, 138-139.	0.9	1
128	Tool box: Plasmids for the expression or knockdown of human ARF Family GTPases (ARF/ARL/SAR) and their co-expression in bacteria with N-myristoyltransferases. Cellular Logistics, 2015, 5, e1090523.	0.9	1
129	Arf proteins bind to mitotic kinesinâ€like protein 1 (MKLP1) in a GTPâ€dependent fashion. Cytoskeleton, 1999, 44, 119-132.	4.4	1
130	ARF and VAPP14: Two Proteins Involved in the Delivery of Heparan Sulfate Proteoglycan from the trans-Golgi Network to the Plasma Membrane. Annals of the New York Academy of Sciences, 1994, 733, 344-356.	3.8	0
131	Roles for ADP-Ribosylation Factors in Membrane Traffic. , 2010, , 1803-1812.		0
132	Gary M. Bokoch (1954–2010). Developmental Cell, 2010, 18, 357-358.	7.0	0
133	The Cellular Logistics Blog (CellLogBlog). Cellular Logistics, 2011, 1, 3-3.	0.9	0
134	Corporate Funding of Nutrition Research and Unjustified Conclusions. JAMA Internal Medicine, 2016, 176, 717.	5.1	0
135	The Role of ARF in Vesicular Membrane Traffic. , 2003, , 727-731.		0
136	Arf1. The AFCS-nature Molecule Pages, 0, , .	0.2	0
137	Reverse Two-Hybrid Techniques in the Yeast Saccharomyces cerevisiae. Methods in Molecular Biology, 2015, 1278, 433-446.	0.9	0
138	Arfs and Arls: models for Arf family members in membrane traffic at the Golgi. , 2008, , 106-119.		0