

Robert R Kay

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2316232/publications.pdf>

Version: 2024-02-01

96
papers

5,760
citations

57758

44
h-index

82547

72
g-index

103
all docs

103
docs citations

103
times ranked

4193
citing authors

#	ARTICLE	IF	CITATIONS
1	The Amoebal Model for Macropinocytosis. <i>Sub-Cellular Biochemistry</i> , 2022, 98, 41-59.	2.4	3
2	Macropinocytosis: Biology and mechanisms. <i>Cells and Development</i> , 2021, 168, 203713.	1.5	30
3	Endocytosis: RasGAPs Help Organize Macropinocytic Cups. <i>Current Biology</i> , 2020, 30, R883-R885.	3.9	2
4	Pressure sensing through Piezo channels controls whether cells migrate with blebs or pseudopods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2506-2512.	7.1	57
5	The origins and evolution of macropinocytosis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180158.	4.0	108
6	Genetic Engineering of <i>Dictyostelium discoideum</i> Cells Based on Selection and Growth on Bacteria. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	8
7	Function of small GTPases in <i>Dictyostelium</i> macropinocytosis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180150.	4.0	51
8	Living on soup: macropinocytic feeding in amoebae. <i>International Journal of Developmental Biology</i> , 2019, 63, 473-483.	0.6	12
9	The Atypical MAP Kinase ErkB Transmits Distinct Chemotactic Signals through a Core Signaling Module. <i>Developmental Cell</i> , 2019, 48, 491-505.e9.	7.0	28
10	Akt and SGK protein kinases are required for efficient feeding by macropinocytosis. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	26
11	The physiological regulation of macropinocytosis during <i>Dictyostelium</i> growth and development. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	45
12	Amplification of PIP3 signalling by macropinocytic cups. <i>Biochemical Journal</i> , 2018, 475, 643-648.	3.7	13
13	Repellent and Attractant Guidance Cues Initiate Cell Migration by Distinct Rear-Driven and Front-Driven Cytoskeletal Mechanisms. <i>Current Biology</i> , 2018, 28, 995-1004.e3.	3.9	13
14	High-throughput Measurement of <i>Dictyostelium discoideum</i> Macropinocytosis by Flow Cytometry. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	8
15	Rapid and efficient genetic engineering of both wild type and axenic strains of <i>Dictyostelium discoideum</i> . <i>PLoS ONE</i> , 2018, 13, e0196809.	2.5	65
16	Method to study cell migration under uniaxial compression. <i>Molecular Biology of the Cell</i> , 2017, 28, 809-816.	2.1	20
17	Image based modeling of bleb site selection. <i>Scientific Reports</i> , 2017, 7, 6692.	3.3	25
18	A plasma membrane template for macropinocytic cups. <i>ELife</i> , 2016, 5, .	6.0	140

#	ARTICLE	IF	CITATIONS
19	Uses and abuses of macropinocytosis. <i>Journal of Cell Science</i> , 2016, 129, 2697-705.	2.0	160
20	Xpf suppresses mutagenic consequences of bacterial phagocytosis in <i>Dictyostelium</i> . <i>Journal of Cell Science</i> , 2016, 129, 4449-4454.	2.0	8
21	A polycystin-type transient receptor potential (Trp) channel that is activated by ATP. <i>Biology Open</i> , 2016, 6, 200-209.	1.2	12
22	Chemotactic Blebbing in <i>Dictyostelium</i> Cells. <i>Methods in Molecular Biology</i> , 2016, 1407, 97-105.	0.9	5
23	Functional drug screening reveals anticonvulsants as enhancers of mTOR-independent autophagic killing of <i>Mycobacterium tuberculosis</i> through inositol depletion. <i>EMBO Molecular Medicine</i> , 2015, 7, 127-139.	6.9	137
24	Chemotaxis of a model organism: progress with <i>Dictyostelium</i> . <i>Current Opinion in Cell Biology</i> , 2015, 36, 7-12.	5.4	91
25	Mechanism of eIF6 release from the nascent 60S ribosomal subunit. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 914-919.	8.2	168
26	<i>Dictyostelium</i> Cultivation, Transfection, Microscopy and Fractionation. <i>Bio-protocol</i> , 2015, 5, .	0.4	5
27	Neurofibromin controls macropinocytosis and phagocytosis in <i>Dictyostelium</i> . <i>ELife</i> , 2015, 4, .	6.0	111
28	Bleb-driven chemotaxis of <i>Dictyostelium</i> cells. <i>Journal of Cell Biology</i> , 2014, 204, 1027-1044.	5.2	95
29	<i>Dictyostelium</i> uses ether-linked inositol phospholipids for intracellular signalling. <i>EMBO Journal</i> , 2014, 33, 2188-2200.	7.8	53
30	How blebs and pseudopods cooperate during chemotaxis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11703-11708.	7.1	75
31	A PIP5 Kinase Essential for Efficient Chemotactic Signaling. <i>Current Biology</i> , 2014, 24, 415-421.	3.9	29
32	Characterization of TSET, an ancient and widespread membrane trafficking complex. <i>ELife</i> , 2014, 3, e02866.	6.0	114
33	Two distinct functions for PI3-kinases in macropinocytosis. <i>Journal of Cell Science</i> , 2013, 126, 4296-307.	2.0	83
34	Comparative genomics of the social amoebae <i>Dictyostelium discoideum</i> and <i>Dictyostelium purpureum</i> . <i>Genome Biology</i> , 2011, 12, R20.	9.6	141
35	Defective ribosome assembly in Shwachman-Diamond syndrome. <i>Blood</i> , 2011, 118, 4305-4312.	1.4	141
36	Identification of a Eukaryotic Reductive Dechlorinase and Characterization of Its Mechanism of Action on Its Natural Substrate. <i>Chemistry and Biology</i> , 2011, 18, 1252-1260.	6.0	16

#	ARTICLE	IF	CITATIONS
37	The exocytic gene <i>secA</i> is required for <i>Dictyostelium</i> cell motility and osmoregulation. <i>Journal of Cell Science</i> , 2010, 123, 3226-3234.	2.0	15
38	Sex Determination in the Social Amoeba <i>Dictyostelium discoideum</i> . <i>Science</i> , 2010, 330, 1533-1536.	12.6	100
39	A flavin-dependent halogenase catalyzes the chlorination step in the biosynthesis of <i>Dictyostelium</i> differentiation-inducing factor 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5798-5803.	7.1	65
40	A new <i>Dictyostelium</i> prestalk cell sub-type. <i>Developmental Biology</i> , 2010, 339, 390-397.	2.0	23
41	Regulation of Rap1 activity is required for differential adhesion, cell-type patterning and morphogenesis in <i>Dictyostelium</i> . <i>Journal of Cell Science</i> , 2009, 122, 335-344.	2.0	31
42	Forming Patterns in Development without Morphogen Gradients: Scattered Differentiation and Sorting Out. <i>Cold Spring Harbor Perspectives in Biology</i> , 2009, 1, a001503-a001503.	5.5	46
43	Migration of <i>Dictyostelium</i> slugs: Anterior-like cells may provide the motive force for the prespore zone. <i>Cytoskeleton</i> , 2009, 66, 1073-1086.	4.4	17
44	Surface area regulation: underexplored yet crucial in cell motility. <i>Nature Reviews Molecular Cell Biology</i> , 2008, 9, 662-662.	37.0	32
45	<i>Dictyostelium</i> transcriptional responses to <i>Pseudomonas aeruginosa</i> : common and specific effects from PAO1 and PA14 strains. <i>BMC Microbiology</i> , 2008, 8, 109.	3.3	46
46	Widespread duplications in the genomes of laboratory stocks of <i>Dictyostelium discoideum</i> . <i>Genome Biology</i> , 2008, 9, R75.	9.6	67
47	SrfB, a member of the Serum Response Factor family of transcription factors, regulates starvation response and early development in <i>Dictyostelium</i> . <i>Developmental Biology</i> , 2008, 316, 260-274.	2.0	14
48	DIF-1 induces the basal disc of the <i>Dictyostelium</i> fruiting body. <i>Developmental Biology</i> , 2008, 317, 444-453.	2.0	88
49	Changing directions in the study of chemotaxis. <i>Nature Reviews Molecular Cell Biology</i> , 2008, 9, 455-463.	37.0	180
50	Possible roles of the endocytic cycle in cell motility. <i>Journal of Cell Science</i> , 2007, 120, 2318-2327.	2.0	71
51	My 2,000 best films: parallel phenotyping of <i>Dictyostelium</i> development. <i>Genome Biology</i> , 2007, 8, 220.	9.6	0
52	Chemotaxis in the Absence of PIP3 Gradients. <i>Current Biology</i> , 2007, 17, 813-817.	3.9	260
53	Mutants in the <i>Dictyostelium</i> Arp2/3 complex and chemoattractant-induced actin polymerization. <i>Experimental Cell Research</i> , 2007, 313, 2563-2574.	2.6	22
54	A new environmentally resistant cell type from <i>Dictyostelium</i> . <i>Microbiology (United Kingdom)</i> , 2007, 153, 619-630.	1.8	6

#	ARTICLE	IF	CITATIONS
55	Blebbing of Dictyostelium cells in response to chemoattractant. <i>Experimental Cell Research</i> , 2006, 312, 2009-2017.	2.6	81
56	Identification of new differentiation inducing factors from Dictyostelium discoideum. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 754-761.	2.4	55
57	Developmental timing in Dictyostelium is regulated by the Set1 histone methyltransferase. <i>Developmental Biology</i> , 2006, 292, 519-532.	2.0	37
58	Biosynthesis of Dictyostelium discoideum differentiation-inducing factor by a hybrid type I fatty acid type III polyketide synthase. <i>Nature Chemical Biology</i> , 2006, 2, 494-502.	8.0	110
59	New prestalk and prespore inducing signals in Dictyostelium. <i>Developmental Biology</i> , 2005, 282, 432-441.	2.0	41
60	A bZIP/bRLZ transcription factor required for DIF signaling in Dictyostelium. <i>Development (Cambridge)</i> , 2004, 131, 513-523.	2.5	75
61	A demonstration of pattern formation without positional information in Dictyostelium. <i>Development Growth and Differentiation</i> , 2004, 46, 363-369.	1.5	36
62	Novel Development Rescuing Factors (DRFs) Secreted by the Developing Dictyostelium Cells, That are Involved in the Restoration of a Mutant Lacking MAP-kinase ERK2. <i>Zoological Science</i> , 2004, 21, 829-834.	0.7	7
63	Chemotaxis and cell differentiation in Dictyostelium. <i>Current Opinion in Microbiology</i> , 2002, 5, 575-579.	5.1	18
64	Sequence and analysis of chromosome 2 of Dictyostelium discoideum. <i>Nature</i> , 2002, 418, 79-85.	27.8	176
65	Cross-induction of cell types in Dictyostelium: evidence that DIF-1 is made by prespore cells. <i>Development (Cambridge)</i> , 2001, 128, 4959-4966.	2.5	67
66	Cell-Fate Choice in Dictyostelium: Intrinsic Biases Modulate Sensitivity to DIF Signaling. <i>Developmental Biology</i> , 2000, 227, 56-64.	2.0	90
67	The Role of DIF-1 Signaling in Dictyostelium Development. <i>Molecular Cell</i> , 2000, 6, 1509-1514.	9.7	157
68	The RdeA-RegA System, a Eukaryotic Phospho-relay Controlling cAMP Breakdown. <i>Journal of Biological Chemistry</i> , 1999, 274, 27379-27384.	3.4	76
69	Taking the plunge: terminal differentiation in Dictyostelium. <i>Trends in Genetics</i> , 1999, 15, 15-19.	6.7	62
70	The Dictyostelium genome project an invitation to species hopping. <i>Trends in Genetics</i> , 1999, 15, 294-297.	6.7	44
71	DIF signalling and cell fate. <i>Seminars in Cell and Developmental Biology</i> , 1999, 10, 577-585.	5.0	70
72	The Biosynthesis of Differentiation-Inducing Factor, a Chlorinated Signal Molecule Regulating Dictyostelium Development. <i>Journal of Biological Chemistry</i> , 1998, 273, 2669-2675.	3.4	56

#	ARTICLE	IF	CITATIONS
73	Dictyostelium development: Lower STATs. <i>Current Biology</i> , 1997, 7, R723-R725.	3.9	15
74	A mutational analysis of Dictyostelium discoideum multicellular development. <i>Microbiology (United Kingdom)</i> , 1997, 141, 107-115.	1.8	3
75	Metabolic pathways for differentiation-inducing factor-1 and their regulation are conserved between closely related Dictyostelium species, but not between distant members of the family. <i>Differentiation</i> , 1995, 58, 95-100.	1.9	9
76	Differentiation and patterning in Dictyostelium. <i>Current Opinion in Genetics and Development</i> , 1994, 4, 637-641.	3.3	8
77	Mutation of protein kinase A causes heterochronic development of Dictyostelium. <i>Nature</i> , 1992, 356, 171-172.	27.8	133
78	Morphogenesis and differentiation of Dictyostelium cells interacting with immobilized glucosides: dependence on DIF production. <i>Differentiation</i> , 1992, 49, 133-141.	1.9	8
79	Differentiation-inducing-factor dechlorinase, a novel cytosolic dechlorinating enzyme from Dictyostelium discoideum. <i>FEBS Journal</i> , 1992, 208, 531-536.	0.2	30
80	Diffusible signal molecules controlling cell differentiation and patterning in Dictyostelium. <i>Development (Cambridge)</i> , 1991, 113, 131-139.	2.5	13
81	Position-Dependent regulation of the prestalk-prespore pattern in Dictyostelium slugs. <i>Genesis</i> , 1990, 11, 447-452.	2.1	7
82	Origins of the prestalk-prespore pattern in Dictyostelium development. <i>Cell</i> , 1989, 59, 1157-1163.	28.9	177
83	Morphogen hunting in Dictyostelium. <i>Development (Cambridge)</i> , 1989, 107, 81-90.	2.5	55
84	Morphogens from Dictyostelium discoideum. <i>Biological Mass Spectrometry</i> , 1988, 16, 353-355.	0.5	4
85	The search for morphogenes in Dictyostelium. <i>BioEssays</i> , 1988, 9, 187-191.	2.5	9
86	Signals controlling cell differentiation and pattern formation in Dictyostelium. <i>Genesis</i> , 1988, 9, 579-587.	2.1	24
87	Cyclic AMP is an inhibitor of stalk cell differentiation in Dictyostelium discoideum. <i>Developmental Biology</i> , 1988, 126, 108-114.	2.0	95
88	Chapter 23 Cell Differentiation in Monolayers and the Investigation of Slime Mold Morphogens. <i>Methods in Cell Biology</i> , 1987, 28, 433-448.	1.1	76
89	Chemical structure of the morphogen differentiation inducing factor from Dictyostelium discoideum. <i>Nature</i> , 1987, 328, 811-814.	27.8	373
90	Selective induction of stalk-cell-specific proteins in Dictyostelium. <i>Differentiation</i> , 1985, 28, 209-216.	1.9	47

#	ARTICLE	IF	CITATIONS
91	An electrogenic proton pump in plasma membranes from the cellular slime mould <i>Dictyostelium discoideum</i> . <i>FEBS Letters</i> , 1984, 175, 422-428.	2.8	34
92	Control of gene expression: Cyclic AMP and development in the slime mould. <i>Nature</i> , 1983, 301, 659-659.	27.8	9
93	Purification of stalk-cell-inducing morphogens from <i>Dictyostelium discoideum</i> . <i>FEBS Journal</i> , 1983, 136, 51-56.	0.2	78
94	Developmental regulation of a stalk cell differentiation-inducing factor in <i>Dictyostelium discoideum</i> . <i>Developmental Biology</i> , 1982, 91, 191-196.	2.0	108
95	How cells live together. <i>Nature</i> , 1981, 294, 108-109.	27.8	0
96	Effects of BUdR on developmental functions of <i>Dictyostelium discoideum</i> . <i>Cell Differentiation</i> , 1978, 7, 33-45.	0.4	1