Adam Kuspa

List of Publications by Year
in descending order

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80 papers	6,115 citations	81900 39 h-index	74163 75 g-index
81 all docs	81 docs citations	81 times ranked	3945 citing authors

#	Article	IF	Citations
1	The genome of the social amoeba Dictyostelium discoideum. Nature, 2005, 435, 43-57.	27.8	1,179
2	Tagging developmental genes in Dictyostelium by restriction enzyme-mediated integration of plasmid DNA.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 8803-8807.	7.1	487
3	A global analysis of developmentally regulated genes in Myxococcus xanthus. Developmental Biology, 1986, 117, 252-266.	2.0	321
4	Polymorphic Members of the lag Gene Family Mediate Kin Discrimination in Dictyostelium. Current Biology, 2009, 19, 567-572.	3.9	204
5	Immune-like Phagocyte Activity in the Social Amoeba. Science, 2007, 317, 678-681.	12.6	182
6	Sequence and analysis of chromosome 2 of Dictyostelium discoideum. Nature, 2002, 418, 79-85.	27.8	176
7	A MAP kinase necessary for receptor-mediated activation of adenylyl cyclase in Dictyostelium.. Journal of Cell Biology, 1995, 128, 405-413.	5.2	170
8	Intercellular signaling is required for developmental gene expression in Myxococcus xanthus. Developmental Biology, 1986, 117, 267-276.	2.0	167
9	Conserved developmental transcriptomes in evolutionarily divergent species. Genome Biology, 2010, 11, R35.	9.6	164
10	CRAC, a cytosolic protein containing a pleckstrin homology domain, is required for receptor and G protein-mediated activation of adenylyl cyclase in Dictyostelium.. Journal of Cell Biology, 1994, 126, 1537-1545.	5.2	163
11	Periodic Signaling Controlled by an Oscillatory Circuit That Includes Protein Kinases ERK2 and PKA. Science, 2004, 304, 875-878.	12.6	155
12	Comparative genomics of the social amoebae Dictyostelium discoideum and Dictyostelium purpureum. Genome Biology, 2011, 12, R20.	9.6	141
13	Facultative cheater mutants reveal the genetic complexity of cooperation in social amoebae. Nature, 2008, 451, 1107-1110.	27.8	137
14	Self-Recognition in Social Amoebae Is Mediated by Allelic Pairs of Tiger Genes. Science, 2011, 333, 467-470.	12.6	135
15	A transcriptional profile of multicellular development inDictyostelium discoideum. Development (Cambridge), 2002, 129, 1543-1552.	2.5	109
16	Epistasis analysis with global transcriptional phenotypes. Nature Genetics, 2005, 37, 471-477.	21.4	100
17	Dictyostelium Development in the Absence of cAMP. Science, 1997, 277, 251-254.	12.6	99
18	Social amoebae trap and kill bacteria by casting DNA nets. Nature Communications, 2016, 7, 10938.	12.8	88

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19	Control of Cell Density and Pattern by Intercellular Signaling in Myxococcus Development. Annual Review of Microbiology, 1992, 46, 117-139.	7.3	79
20	Bacterial Discrimination by Dictyostelid Amoebae Reveals the Complexity of Ancient Interspecies Interactions. Current Biology, 2013, 23, 862-872.	3.9	69
21	Cheater-resistance is not futile. Nature, 2009, 461, 980-982.	27.8	66
22	The Internal Phosphodiesterase RegA Is Essential for the Suppression of Lateral Pseudopods duringDictyosteliumChemotaxis. Molecular Biology of the Cell, 2000, 11, 2803-2820.	2.1	65
23	Two-component signal transduction systems in eukaryotic microorganisms. Current Opinion in Microbiology, 1998, 1, 643-648.	5.1	63
24	dictyExpress: a Dictyostelium discoideum gene expression database with an explorative data analysis web-based interface. BMC Bioinformatics, 2009, 10, 265.	2.6	63
25	Developmentally Regulated DNA Methylation in Dictyostelium discoideum. Eukaryotic Cell, 2006, 5, 18-25.	3.4	61
26	Physical mapping of the Myxococcus xanthus genome by random cloning in yeast artificial chromosomes.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 8917-8921.	7.1	57
27	A transcriptional profile of multicellular development in Dictyostelium discoideum. Development (Cambridge), 2002, 129, 1543-52.	2.5	56
28	Restriction Enzyme-Mediated Integration (REMI) Mutagenesis. , 2006, 346, 201-210.		55
29	GenePath: a system for automated construction of genetic networks from mutant data. Bioinformatics, 2003, 19, 383-389.	4.1	54
30	Genomic Signatures of Cooperation and Conflict in the Social Amoeba. Current Biology, 2015, 25, 1661-1665.	3.9	51
31	Sequence and structure of the extrachromosomal palindrome encoding the ribosomal RNA genes in Dictyostelium. Nucleic Acids Research, 2003, 31, 2361-2368.	14.5	50
32	Unconventional Secretion of AcbA in Dictyostelium discoideum through a Vesicular Intermediate. Eukaryotic Cell, 2010, 9, 1009-1017.	3.4	50
33	Kin Recognition Protects Cooperators against Cheaters. Current Biology, 2013, 23, 1590-1595.	3.9	49
34	Evidence That a Cell-Type-Specific Efflux Pump Regulates Cell Differentiation in Dictyostelium. Developmental Biology, 2000, 220, 53-61.	2.0	48
35	Ordered yeast artificial chromosome clones representing the Dictyostelium discoideum genome.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 5562-5566.	7.1	47
36	Interaptin, an Actin-binding Protein of the Î±-Actinin Superfamily in Dictyostelium discoideum, Is Developmentally and cAMP-regulated and Associates with Intracellular Membrane Compartments. Journal of Cell Biology, 1998, 142, 735-750.	5.2	46

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37	Discovery of myosin genes by physical mapping in Dictyostelium.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 9446-9450.	7.1	45
38	High-throughput analysis of spatio-temporal dynamics in Dictyostelium. Genome Biology, 2007, 8, R144.	9.6	45
39	Physical mapping of genes to specific chromosomes in Dictyostelium discoideum. Genomics, 1992, 13, 49-61.	2.9	44
40	Biochemical and genetic analysis of pre-stalk specific acid phosphatase in Dictyostelium. Developmental Biology, 1984, 102, 498-503.	2.0	42
41	Tissue-specific G1-phase cell-cycle arrest prior to terminal differentiation in Dictyostelium. Development (Cambridge), 2004, 131, 2619-2630.	2.5	40
42	Comparing the Dictyostelium and Entamoeba Genomes Reveals an Ancient Split in the Conosa Lineage. PLoS Computational Biology, 2005, 1, e71.	3.2	39
43	Role for YakA, cAMP, and Protein Kinase A in Regulation of Stress Responses ofDictyostelium discoideumCells. Molecular Biology of the Cell, 2002, 13, 2266-2275.	2.1	36
44	Lectins modulate the microbiota of social amoebae. Science, 2018, 361, 402-406.	12.6	35
45	Developmental Commitment in Dictyostelium discoideum. Eukaryotic Cell, 2007, 6, 2038-2045.	3.4	34
46	Allorecognition, via TgrB1 and TgrC1, mediates the transition from unicellularity to multicellularity in the social amoebae Dictyostelium discoideum. Development (Cambridge), 2015, 142, 3561-70.	2.5	34
47	Naringenin inhibits the growth of <scp>D</scp>ictyostelium and <scp>MDCK</scp>â€derived cysts in a <scp>TRPP2</scp> (polycystinâ€2)â€dependent manner. British Journal of Pharmacology, 2014, 171, 2659-2670.	5.4	31
48	Analysis of gene function inDictyostelium. Experientia, 1995, 51, 1116-1123.	1.2	30
49	TagA, a putative serine protease/ABC transporter of Dictyostelium that is required for cell fate determination at the onset of development. Development (Cambridge), 2003, 130, 2953-2965.	2.5	30
50	Cellâ€“Cell Adhesion Prevents Mutant Cells Lacking Myosin II from Penetrating Aggregation Streams ofDictyostelium. Developmental Biology, 1996, 175, 218-226.	2.0	27
51	Transcriptional Transitions during Dictyostelium Spore Germination. Eukaryotic Cell, 2004, 3, 1101-1110.	3.4	24
52	Microarray phenotyping in Dictyostelium reveals a regulon of chemotaxis genes. Bioinformatics, 2005, 21, 4371-4377.	4.1	23
53	Gene Prioritization by Compressive Data Fusion and Chaining. PLoS Computational Biology, 2015, 11, e1004552.	3.2	22
54	The polymorphic proteins TgrB1 and TgrC1 function as a ligand-receptor pair in Dictyostelium allorecognition. Journal of Cell Science, 2017, 130, 4002-4012.	2.0	22

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55	GenePath: a system for inference of genetic networks and proposal of genetic experiments. Artificial Intelligence in Medicine, 2003, 29, 107-130.	6.5	21
56	The ABC transporter, AbcB3, mediates cAMP export in D. discoideum development. Developmental Biology, 2015, 397, 203-211.	2.0	21
57	The Genome of Dictyostelium discoideum. , 2006, 346, 15-30.		20
58	The promise of a protist: the Dictyostelium genome project. Functional and Integrative Genomics, 2001, 1, 279-293.	3.5	19
59	Global transcriptional responses to cisplatin in Dictyostelium discoideum identify potential drug targets. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15406-15411.	7.1	19
60	CulB, a Putative Ubiquitin Ligase Subunit, Regulates Prestalk Cell Differentiation and Morphogenesis in Dictyostelium spp. Eukaryotic Cell, 2002, 1, 126-136.	3.4	18
61	A new social gene in Dictyostelium discoideum, chtB. BMC Evolutionary Biology, 2013, 13, 4.	3.2	18
62	A physical map of the Myxococcus xanthus chromosome.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 9584-9587.	7.1	17
63	Multiple Developmental Roles for CRAC, a Cytosolic Regulator of Adenylyl Cyclase. Developmental Biology, 1999, 208, 1-13.	2.0	17
64	A novel partner for Dictyostelium filamin is an Î±-helical developmentally regulated protein. Journal of Cell Science, 2004, 117, 5013-5022.	2.0	16
65	Microbiome management in the social amoeba Dictyostelium discoideum compared to humans. International Journal of Developmental Biology, 2019, 63, 447-450.	0.6	14
66	ABC Transporters in Dictyostelium discoideum Development. PLoS ONE, 2013, 8, e70040.	2.5	14
67	A novel human receptor involved in bitter tastant detection identified using the model organism Dictyostelium discoideum. Journal of Cell Science, 2013, 126, 5465-76.	2.0	13
68	Genetic Evidence that the Acyl Coenzyme A Binding Protein AcbA and the Serine Protease/ABC Transporter TagA Function Together in Dictyostelium discoideum Cell Differentiation. Eukaryotic Cell, 2006, 5, 2024-2032.	3.4	12
69	Transcriptional Down-Regulation and rRNA Cleavage in Dictyostelium discoideum Mitochondria during Legionella pneumophila Infection. PLoS ONE, 2009, 4, e5706.	2.5	12
70	Prespore Cell Fate Bias in G 1 Phase of the Cell Cycle in Dictyostelium discoideum. Eukaryotic Cell, 2005, 4, 1755-1764.	3.4	11
71	New components of the Dictyostelium PKA pathway revealed by Bayesian analysis of expression data. BMC Bioinformatics, 2010, 11, 163.	2.6	10
72	Toward the Functional Analysis of the Dictyostelium discoideum Genome1. Journal of Eukaryotic Microbiology, 2000, 47, 334-339.	1.7	8

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73	Loss of the Polyketide Synthase StlB Results in Stalk Cell Overproduction in Polysphondylium violaceum. Genome Biology and Evolution, 2020, 12, 674-683.	2.5	8
74	Social amoebae establish a protective interface with their bacterial associates by lectin agglutination. Science Advances, 2019, 5, eaav4367.	10.3	7
75	Cooperative predation in the social amoebae Dictyostelium discoideum. PLoS ONE, 2019, 14, e0209438.	2.5	5
76	Discovery of Genetic Networks Through Abduction and Qualitative Simulation. Lecture Notes in Computer Science, 2007, , 228-247.	1.3	5
77	(Auto)Biographical reflections on the contributions of William F. Loomis (1940-2016) to Dictyostelium biology. International Journal of Developmental Biology, 2019, 63, 343-357.	0.6	1
78	3C1322 Relation between collective cell migration and self-organization of chemoattractant waves(3C) Tj ETQq0 0 0 rgBT /Overlock 10 S114.	0.1	0
79	Allorecognition and Innate Immunity in the Dictyostelid Social Amoebae. , 2018, , 23-50.		0
80	Analysis of the Dictyostelium discoideum Genome. , 1996, , 293-318.		0