

Cornelis Jan Weijer

List of Publications by Year in descending order

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86
papers

5,059
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71102

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#	ARTICLE	IF	CITATIONS
1	Effects of spatial confinement on migratory properties of <i>Dictyostelium discoideum</i> cells. <i>Communicative and Integrative Biology</i> , 2021, 14, 5-14.	1.4	5
2	Moving the Research Forward: The Best of British Biology Using the Tractable Model System <i>Dictyostelium discoideum</i> . <i>Cells</i> , 2021, 10, 3036.	4.1	2
3	Analysis of barotactic and chemotactic guidance cues on directional decision-making of <i>Dictyostelium discoideum</i> cells in confined environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25553-25559.	7.1	12
4	Chemotaxis: Active Degradation of Attractant Enables Optimal Maze Navigation. <i>Current Biology</i> , 2020, 30, R1436-R1438.	3.9	0
5	Dynamic morphoskeletons in development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11444-11449.	7.1	18
6	Cellular processes driving gastrulation in the avian embryo. <i>Mechanisms of Development</i> , 2020, 163, 103624.	1.7	28
7	Measurement of junctional tension in epithelial cells at the onset of primitive streak formation in the chick embryo via non-destructive optical manipulation. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	10
8	Oscillatory cAMP cell-cell signalling persists during multicellular <i>Dictyostelium</i> development. <i>Communications Biology</i> , 2019, 2, 139.	4.4	35
9	Spiral Waves of the Chemo-Attractant cAMP Organise Multicellular Development in the Social <i>Dictyostelium discoideum</i> . <i>The Frontiers Collection</i> , 2019, , 193-207.	0.2	0
10	Active Vertex Model for cell-resolution description of epithelial tissue mechanics. <i>PLoS Computational Biology</i> , 2017, 13, e1005569.	3.2	180
11	Gaussian vs. Bessel light-sheets: performance analysis in live large sample imaging. , 2017, , .		0
12	Progress and perspectives in signal transduction, actin dynamics, and movement at the cell and tissue level: lessons from <i>Dictyostelium</i> . <i>Interface Focus</i> , 2016, 6, 20160047.	3.0	41
13	The multicellularity genes of dictyostelid social amoebas. <i>Nature Communications</i> , 2016, 7, 12085.	12.8	63
14	Modelling cell movement, cell differentiation, cell sorting and proportion regulation in <i>Dictyostelium discoideum</i> aggregations. <i>Journal of Theoretical Biology</i> , 2015, 370, 135-150.	1.7	13
15	Myosin-II-mediated cell shape changes and cell intercalation contribute to primitive streak formation. <i>Nature Cell Biology</i> , 2015, 17, 397-408.	10.3	176
16	SILAC-based proteomic quantification of chemoattractant-induced cytoskeleton dynamics on a second to minute timescale. <i>Nature Communications</i> , 2014, 5, 3319.	12.8	18
17	Signalling During <i>Dictyostelium</i> Development. , 2013, , 49-70.		0
18	Investigating the motility of <i>Dictyostelium discoideum</i> using high frequency ultrasound as a method of manipulation. , 2012, , .		2

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19	Tumourigenic fragments of APC cause dominant defects in directional cell migration in multiple model systems. <i>DMM Disease Models and Mechanisms</i> , 2012, 5, 940-7.	2.4	20
20	Collective Epithelial and Mesenchymal Cell Migration During Gastrulation. <i>Current Genomics</i> , 2012, 13, 267-277.	1.6	53
21	Correlating Cell Behavior with Tissue Topology in Embryonic Epithelia. <i>PLoS ONE</i> , 2011, 6, e18081.	2.5	28
22	Chemotactic cell movement a key mechanism of tissue dynamics and morphogenesis. <i>FASEB Journal</i> , 2011, 25, 301.1.	0.5	0
23	Suppression of cellular proliferation and invasion by the concerted lipid and protein phosphatase activities of PTEN. <i>Oncogene</i> , 2010, 29, 687-697.	5.9	117
24	Modeling Gastrulation in the Chick Embryo: Formation of the Primitive Streak. <i>PLoS ONE</i> , 2010, 5, e10571.	2.5	63
25	Collective cell migration in development. <i>Journal of Cell Science</i> , 2009, 122, 3215-3223.	2.0	273
26	Who moves whom during primitive streak formation in the chick embryo. <i>HFSP Journal</i> , 2009, 3, 71-76.	2.5	20
27	Regulation of cell migration during chick gastrulation. <i>Current Opinion in Genetics and Development</i> , 2009, 19, 343-349.	3.3	34
28	Imaging cell signalling and movement in development. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 947-955.	5.0	8
29	The Cellular Basis of Dictyostelium Morphogenesis. , 2009, , 209-220.		1
30	The migration of paraxial and lateral plate mesoderm cells emerging from the late primitive streak is controlled by different Wnt signals. <i>BMC Developmental Biology</i> , 2008, 8, 63.	2.1	64
31	The Mechanisms Underlying Primitive Streak Formation in the Chick Embryo. <i>Current Topics in Developmental Biology</i> , 2008, 81, 135-156.	2.2	45
32	PDGF signalling controls the migration of mesoderm cells during chick gastrulation by regulating N-cadherin expression. <i>Development (Cambridge)</i> , 2008, 135, 3521-3530.	2.5	97
33	Wnt3a-mediated chemorepulsion controls movement patterns of cardiac progenitors and requires RhoA function. <i>Development (Cambridge)</i> , 2008, 135, 1029-1037.	2.5	74
34	Dual mode of paraxial mesoderm formation during chick gastrulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2744-2749.	7.1	70
35	PtdIns(3,4,5)P3-Dependent and -Independent Roles for PTEN in the Control of Cell Migration. <i>Current Biology</i> , 2007, 17, 115-125.	3.9	178
36	Chemotactic cell movement during Dictyostelium development and gastrulation. <i>Current Opinion in Genetics and Development</i> , 2006, 16, 367-373.	3.3	64

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37	Cell movement during chick primitive streak formation. <i>Developmental Biology</i> , 2006, 296, 137-149.	2.0	108
38	Imaging of cell migration. <i>EMBO Journal</i> , 2006, 25, 3480-3493.	7.8	93
39	Visualizing Signaling and Cell Movement During the Multicellular Stages of <i>Dictyostelium</i> Development. , 2006, 346, 297-310.		7
40	The regulation of cell migration by PTEN. <i>Biochemical Society Transactions</i> , 2005, 33, 1507.	3.4	41
41	Paxillin is required for cell-substrate adhesion, cell sorting and slug migration during <i>Dictyostelium</i> development. <i>Journal of Cell Science</i> , 2005, 118, 4295-4310.	2.0	60
42	Signaling to Cytoskeletal Dynamics during Chemotaxis. <i>Developmental Cell</i> , 2005, 9, 19-34.	7.0	138
43	Analysis of tissue flow patterns during primitive streak formation in the chick embryo. <i>Developmental Biology</i> , 2005, 284, 37-47.	2.0	79
44	The Cyclase-associated Protein CAP as Regulator of Cell Polarity and cAMP Signaling in <i>Dictyostelium</i> . <i>Molecular Biology of the Cell</i> , 2004, 15, 934-945.	2.1	96
45	In vivo analysis of 3-phosphoinositide dynamics during <i>Dictyostelium</i> phagocytosis and chemotaxis. <i>Journal of Cell Science</i> , 2004, 117, 6497-6509.	2.0	121
46	<i>Dictyostelium</i> morphogenesis. <i>Current Opinion in Genetics and Development</i> , 2004, 14, 392-398.	3.3	120
47	Modelling of <i>Dictyostelium discoideum</i> slug migration. <i>Journal of Theoretical Biology</i> , 2003, 223, 347-359.	1.7	42
48	Chemotactic cell movement during development. <i>Current Opinion in Genetics and Development</i> , 2003, 13, 358-364.	3.3	62
49	Visualizing Signals Moving in Cells. <i>Science</i> , 2003, 300, 96-100.	12.6	100
50	Cell Movement Patterns during Gastrulation in the Chick Are Controlled by Positive and Negative Chemotaxis Mediated by FGF4 and FGF8. <i>Developmental Cell</i> , 2002, 3, 425-437.	7.0	305
51	Visualizing PI3 Kinase-Mediated Cell-Cell Signaling during <i>Dictyostelium</i> Development. <i>Current Biology</i> , 2002, 12, 1178-1188.	3.9	86
52	Simultaneous quantification of cell motility and protein-membrane-association using active contours. <i>Cytoskeleton</i> , 2002, 52, 221-230.	4.4	86
53	Becoming Multicellular by Aggregation; The Morphogenesis of the Social Amoebae <i>Dictyostelium discoideum</i> . <i>Journal of Biological Physics</i> , 2002, 28, 765-780.	1.5	29
54	A <i>Dictyostelium</i> nuclear phosphatidylinositol phosphate kinase required for developmental gene expression. <i>EMBO Journal</i> , 2001, 20, 6017-6027.	7.8	11

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55	Modelling Dictyostelium discoideum Morphogenesis. The IMA Volumes in Mathematics and Its Applications, 2001, , 193-209.	0.5	1
56	Propagating chemoattractant waves coordinate periodic cell movement in Dictyostelium slugs. Development (Cambridge), 2001, 128, 4535-4543.	2.5	92
57	cAMP receptor affinity controls wave dynamics, geometry and morphogenesis in Dictyostelium. Journal of Cell Science, 2001, 114, 2513-2523.	2.0	59
58	A temperature-sensitive adenylyl cyclase mutant of Dictyostelium. EMBO Journal, 2000, 19, 2247-2256.	7.8	26
59	The control of chemotactic cell movement during Dictyostelium morphogenesis. Philosophical Transactions of the Royal Society B: Biological Sciences, 2000, 355, 983-991.	4.0	57
60	A Model for Dictyostelium Slug Movement. Journal of Theoretical Biology, 1999, 199, 125-136.	1.7	35
61	Modeling Chemotactic Cell Sorting during Dictyostelium discoideum Mound Formation. Biophysical Journal, 1999, 76, 595-605.	0.5	52
62	Morphogenetic cell movement in Dictyostelium. Seminars in Cell and Developmental Biology, 1999, 10, 609-619.	5.0	41
63	Propagating waves control Dictyostelium discoideum morphogenesis. Biophysical Chemistry, 1998, 72, 21-35.	2.8	43
64	Induction of Optical Density Waves and Chemotactic Cell Movement in Dictyostelium discoideum by Microinjection of cAMP Pulses. Developmental Biology, 1998, 204, 525-536.	2.0	24
65	The morphogenesis of dictyostelium discoideum " Pattern formation in a biological excitable system. , 1998, , 163-178.		0
66	Multiarmed Spirals in Excitable Media. Physical Review Letters, 1997, 78, 2489-2492.	7.8	58
67	Analysis of Cell Movement and Signalling during Ring Formation in an Activated G \pm 1 Mutant of Dictyostelium discoideum That Is Defective in Prestalk Zone Formation. Developmental Biology, 1997, 181, 79-90.	2.0	18
68	Null Mutations of the Dictyostelium Cyclic Nucleotide Phosphodiesterase Gene Block Chemotactic Cell Movement in Developing Aggregates. Developmental Biology, 1997, 192, 181-192.	2.0	53
69	A Model for Cell Movement During Dictyostelium Mound Formation. Journal of Theoretical Biology, 1997, 189, 41-51.	1.7	33
70	Analysis of Optical Density Wave Propagation and Cell Movement during Mound Formation in Dictyostelium discoideum. Developmental Biology, 1996, 177, 427-438.	2.0	73
71	Spatial Pattern Formation During Aggregation of the Slime Mould Dictyostelium discoideum. Journal of Theoretical Biology, 1996, 181, 203-213.	1.7	80
72	Spiral and concentric waves organize multicellular Dictyostelium mounds. Current Biology, 1995, 5, 937-943.	3.9	136

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73	The Dictyostelium cell cycle and its relationship to differentiation. FEMS Microbiology Letters, 1994, 124, 123-130.	1.8	43
74	Patterns of cell movement within the Dictyostelium slug revealed by cell type-specific, surface labeling of living cells. Cell, 1994, 77, 687-699.	28.9	83
75	The Dictyostelium cell cycle and its relationship to differentiation. FEMS Microbiology Letters, 1994, 124, 123-130.	1.8	14
76	Analysis of Cell Cycle Progression during the Development of Dictyostelium and Its Relationship to Differentiation. Developmental Biology, 1993, 160, 178-185.	2.0	60
77	Chemotactic stimulation of aggregation-stage Dictyostelium cells induces rapid changes in energy metabolism, as measured by succinic thiokinase phosphorylation. Biochimica Et Biophysica Acta - Molecular Cell Research, 1993, 1176, 175-182.	4.1	3
78	Three-dimensional scroll waves organize Dictyostelium slugs.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 6433-6437.	7.1	194
79	Analysis of optical density wave propagation and cell movement in the cellular slime mould Dictyostelium discoideum. Physica D: Nonlinear Phenomena, 1991, 49, 224-232.	2.8	103
80	Digital image processing of optical density wave propagation in <i>Dictyostelium discoideum</i> and analysis of the effects of caffeine and ammonia. Journal of Cell Science, 1989, 93, 325-335.	2.0	152
81	Chapter 24 Vital Staining Methods Used in the Analysis of Cell Sorting in Dictyostelium discoideum. Methods in Cell Biology, 1987, 28, 449-459.	1.1	10
82	Dictyostelium discoideum: Cell-type proportioning, cell-differentiation preference, cell fate, and the behavior of anterior-like cells in Hs1/Hs2 and G+/Gâ ⁺ mixtures. Differentiation, 1986, 32, 1-9.	1.9	38
83	A frequency difference in optical-density oscillations of early Dictyostelium discoideum density classes and its implications for development. Differentiation, 1984, 28, 9-12.	1.9	23
84	Separation of Dictyostelium discoideum cells into density classes throughout their development and their relationship to the later cell types. Differentiation, 1984, 28, 13-23.	1.9	29
85	A flow fluorimetric analysis of the cell cycle during growth and differentiation in Dictyostelium discoideum. Wilhelm Roux's Archives of Developmental Biology, 1984, 194, 18-24.	1.4	14
86	From unicellular to multicellular organisation in the social amoeba Dictyostelium discoideum. , 0, , 7-24.		0