

Peter J M Van Haastert

List of Publications by Year in descending order

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59
papers

2,910
citations

172457

29
h-index

175258

52
g-index

59
all docs

59
docs citations

59
times ranked

2478
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemotaxis: signalling the way forward. <i>Nature Reviews Molecular Cell Biology</i> , 2004, 5, 626-634.	37.0	628
2	The Ordered Extension of Pseudopodia by Amoeboid Cells in the Absence of External Cues. <i>PLoS ONE</i> , 2009, 4, e5253.	2.5	144
3	Chemotaxis: A Feedback-Based Computational Model Robustly Predicts Multiple Aspects of Real Cell Behaviour. <i>PLoS Biology</i> , 2011, 9, e1000618.	5.6	141
4	A novel cGMP signalling pathway mediating myosin phosphorylation and chemotaxis in <i>Dictyostelium</i> . <i>EMBO Journal</i> , 2002, 21, 4560-4570.	7.8	140
5	Four key signaling pathways mediating chemotaxis in <i>Dictyostelium discoideum</i> . <i>Journal of Cell Biology</i> , 2008, 180, 747-753.	5.2	105
6	Essential role of PI3-kinase and phospholipase A2 in <i>Dictyostelium discoideum</i> chemotaxis. <i>Journal of Cell Biology</i> , 2007, 177, 809-816.	5.2	101
7	Biased Random Walk by Stochastic Fluctuations of Chemoattractant-Receptor Interactions at the Lower Limit of Detection. <i>Biophysical Journal</i> , 2007, 93, 1787-1796.	0.5	101
8	Navigation of Chemotactic Cells by Parallel Signaling to Pseudopod Persistence and Orientation. <i>PLoS ONE</i> , 2009, 4, e6842.	2.5	93
9	The regulation of myosin II in <i>Dictyostelium</i> . <i>European Journal of Cell Biology</i> , 2006, 85, 969-979.	3.6	91
10	Genes lost during evolution. <i>Nature</i> , 2001, 411, 1013-1014.	27.8	80
11	Switching direction in electric-signal-induced cell migration by cyclic guanosine monophosphate and phosphatidylinositol signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 6667-6672.	7.1	78
12	Highlighting the role of Ras and Rap during <i>Dictyostelium</i> chemotaxis. <i>Cellular Signalling</i> , 2008, 20, 1415-1422.	3.6	64
13	Regulation of Phagocytosis in <i>Dictyostelium</i> by the Inositol 5-Phosphatase OCRL Homolog Dd5P4. <i>Traffic</i> , 2007, 8, 618-628.	2.7	61
14	Coupled excitable Ras and F-actin activation mediates spontaneous pseudopod formation and directed cell movement. <i>Molecular Biology of the Cell</i> , 2017, 28, 922-934.	2.1	59
15	Sensory transduction in eukaryotes. A comparison between <i>Dictyostelium</i> and vertebrate cells. <i>FEBS Journal</i> , 1991, 195, 289-303.	0.2	58
16	A homologue of the Parkinson's disease-associated protein LRRK2 undergoes a monomer-dimer transition during GTP turnover. <i>Nature Communications</i> , 2017, 8, 1008.	12.8	53
17	Direct Interaction between TalinB and Rap1 is necessary for adhesion of <i>Dictyostelium</i> cells. <i>BMC Cell Biology</i> , 2016, 17, 1.	3.0	49
18	Characterization of the GbpD-activated Rap1 Pathway Regulating Adhesion and Cell Polarity in <i>Dictyostelium discoideum</i> *. <i>Journal of Biological Chemistry</i> , 2006, 281, 23367-23376.	3.4	47

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19	Analysis of cell movement by simultaneous quantification of local membrane displacement and fluorescent intensities using Quimp2. <i>Cytoskeleton</i> , 2009, 66, 156-165.	4.4	47
20	The small GTPases Ras and Rap1 bind to and control TORC2 activity. <i>Scientific Reports</i> , 2016, 6, 25823.	3.3	47
21	Chemotaxis: insights from the extending pseudopod. <i>Journal of Cell Science</i> , 2010, 123, 3031-3037.	2.0	46
22	Guanylyl Cyclase Protein and cGMP Product Independently Control Front and Back of Chemotaxing Dictyostelium Cells. <i>Molecular Biology of the Cell</i> , 2006, 17, 3921-3929.	2.1	44
23	Chemotaxis: Navigating by Multiple Signaling Pathways. <i>Science's STKE: Signal Transduction Knowledge Environment</i> , 2007, 2007, pe40.	3.9	44
24	PI3-kinase signaling contributes to orientation in shallow gradients and enhances speed in steep chemoattractant gradients. <i>Journal of Cell Science</i> , 2008, 121, 3589-3597.	2.0	44
25	Amoeboid Cells Use Protrusions for Walking, Gliding and Swimming. <i>PLoS ONE</i> , 2011, 6, e27532.	2.5	42
26	Ras activation and symmetry breaking during <i>Dictyostelium</i> chemotaxis. <i>Journal of Cell Science</i> , 2013, 126, 4502-4513.	2.0	42
27	A Rap/Phosphatidylinositol 3-Kinase Pathway Controls Pseudopod Formation. <i>Molecular Biology of the Cell</i> , 2010, 21, 936-945.	2.1	38
28	Food Searching Strategy of Amoeboid Cells by Starvation Induced Run Length Extension. <i>PLoS ONE</i> , 2009, 4, e6814.	2.5	37
29	<i>Dictyostelium</i> Ric8 is a nonreceptor guanine exchange factor for heterotrimeric G proteins and is important for development and chemotaxis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6424-6429.	7.1	35
30	A Model for a Correlated Random Walk Based on the Ordered Extension of Pseudopodia. <i>PLoS Computational Biology</i> , 2010, 6, e1000874.	3.2	32
31	Quimp3, an automated pseudopod-tracking algorithm. <i>Cell Adhesion and Migration</i> , 2010, 4, 46-55.	2.7	30
32	A Stochastic Model for Chemotaxis Based on the Ordered Extension of Pseudopods. <i>Biophysical Journal</i> , 2010, 99, 3345-3354.	0.5	28
33	Expression of a bioactive, single-chain choriogonadotropin in <i>Dictyostelium discoideum</i> . <i>FEBS Journal</i> , 1998, 256, 359-363.	0.2	27
34	Activation of Soluble Guanylyl Cyclase at the Leading Edge during <i>Dictyostelium</i> Chemotaxis. <i>Molecular Biology of the Cell</i> , 2005, 16, 976-983.	2.1	25
35	The role of cGMP and the rear of the cell in <i>Dictyostelium</i> chemotaxis and cell streaming. <i>Journal of Cell Science</i> , 2008, 121, 120-127.	2.0	22
36	Phospholipase-C-Independent Inositol 1,4,5-Trisphosphate Formation in <i>Dictyostelium</i> Cells - Activation of a Plasma-Membrane-Bound Phosphatase by Receptor-Stimulated Ca ²⁺ Influx. <i>FEBS Journal</i> , 1997, 244, 113-119.	0.2	20

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37	The local cell curvature guides pseudopodia towards chemoattractants. HFSP Journal, 2009, 3, 282-286.	2.5	17
38	How Cells Use Pseudopods for Persistent Movement and Navigation. Science Signaling, 2011, 4, pe6.	3.6	17
39	Rap1-dependent pathways coordinate cytokinesis in <i>Dictyostelium</i> . Molecular Biology of the Cell, 2014, 25, 4195-4204.	2.1	17
40	A G β -Stimulated RapGEF Is a Receptor-Proximal Regulator of Dictyostelium Chemotaxis. Developmental Cell, 2016, 37, 458-472.	7.0	16
41	A Worldwide Competition to Compare the Speed and Chemotactic Accuracy of Neutrophil-Like Cells. PLoS ONE, 2016, 11, e0154491.	2.5	16
42	Lithium, an inhibitor of cAMP-induced inositol 1,4,5-trisphosphate accumulation in Dictyostelium discoideum, inhibits activation of guanine-nucleotide-binding regulatory proteins, reduces activation of adenyllyl cyclase, but potentiates activation of guanylyl cyclase by cAMP. FEBS Journal, 1992, 209, 299-304.	0.2	11
43	Phosphorylation of Inositol 1,4,5-Trisphosphate Analogues by 3-Kinase and Dephosphorylation of Inositol 1,3,4,5-Tetrakisphosphate Analogues by 5-Phosphatase. FEBS Journal, 1994, 226, 561-566.	0.2	11
44	Analysis of Signal Transduction: Formation of cAMP, cGMP, and Ins(1,4,5)P ₃ In Vivo and In Vitro. , 2006, 346, 369-392.		11
45	Activation of a pertussis-toxin-sensitive guanine-nucleotide-binding regulatory protein during desensitization of Dictyostelium discoideum cells to chemotactic signals. FEBS Journal, 1991, 195, 715-721.	0.2	9
46	Dynamics and function of the inositol cycle in Dictyostelium discoideum. Genesis, 1991, 12, 19-24.	2.1	9
47	Short- and long-term memory of moving amoeboid cells. PLoS ONE, 2021, 16, e0246345.	2.5	8
48	The cytoskeleton regulates symmetry transitions in moving amoeboid cells. Journal of Cell Science, 2018, 131, .	2.0	7
49	Mathematics of Experimentally Generated Chemoattractant Gradients. Methods in Molecular Biology, 2016, 1407, 381-396.	0.9	6
50	Unified control of amoeboid pseudopod extension in multiple organisms by branched F-actin in the front and parallel F-actin/myosin in the cortex. PLoS ONE, 2020, 15, e0243442.	2.5	4
51	Combined FCS and PCH Analysis to Quantify Protein Dimerization in Living Cells. International Journal of Molecular Sciences, 2021, 22, 7300.	4.1	3
52	Forty-five years of cGMP research in <i>Dictyostelium</i> : understanding the regulation and function of the cGMP pathway for cell movement and chemotaxis. Molecular Biology of the Cell, 2021, 32, ar8.	2.1	3
53	Symmetry Breaking during Cell Movement in the Context of Excitability, Kinetic Fine-Tuning and Memory of Pseudopod Formation. Cells, 2020, 9, 1809.	4.1	2
54	Title is missing!. , 2020, 15, e0243442.		0

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55	Title is missing!. , 2020, 15, e0243442.		0
56	Title is missing!. , 2020, 15, e0243442.		0
57	Title is missing!. , 2020, 15, e0243442.		0
58	Title is missing!. , 2020, 15, e0243442.		0
59	Title is missing!. , 2020, 15, e0243442.		0