

Arjan Kortholt

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,145
citations

201674

27
h-index

254184

43
g-index

67
all docs

67
docs citations

67
times ranked

1981
citing authors

#	ARTICLE	IF	CITATIONS
1	The beneficial effect of salubrinal on neuroinflammation and neuronal loss in intranigral LPS-induced hemi-Parkinson disease model in rats. <i>Immunopharmacology and Immunotoxicology</i> , 2022, 44, 168-177.	2.4	8
2	The Roc domain of LRRK2 as a hub for protein-protein interactions: a focus on PAK6 and its impact on RAB phosphorylation. <i>Brain Research</i> , 2022, 1778, 147781.	2.2	7
3	Nanobodies as allosteric modulators of Parkinson's disease-associated LRRK2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	15
4	A Phosphosite Mutant Approach on LRRK2 Links Phosphorylation and Dephosphorylation to Protective and Deleterious Markers, Respectively. <i>Cells</i> , 2022, 11, 1018.	4.1	4
5	Editorial: LRRK2's Fifteen Years From Cloning to the Clinic. <i>Frontiers in Neuroscience</i> , 2022, 16, 880914.	2.8	0
6	The tale of proteolysis targeting chimeras (PROTACs) for Leucine-Rich Repeat Kinase 2 (LRRK2). <i>ChemMedChem</i> , 2021, 16, 959-965.	3.2	23
7	LRRK2 Targeting Strategies as Potential Treatment of Parkinson's Disease. <i>Biomolecules</i> , 2021, 11, 1101.	4.0	19
8	Combined FCS and PCH Analysis to Quantify Protein Dimerization in Living Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7300.	4.1	3
9	Membrane Targeting of C2GAP1 Enables <i>Dictyostelium discoideum</i> to Sense Chemoattractant Gradient at a Higher Concentration Range. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 725073.	3.7	4
10	A Conserved Role for LRRK2 and Roco Proteins in the Regulation of Mitochondrial Activity. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 734554.	3.7	6
11	Allosteric Inhibition of Parkinson's-Linked LRRK2 by Constrained Peptides. <i>ACS Chemical Biology</i> , 2021, 16, 2326-2338.	3.4	15
12	Forty-five years of cGMP research in <i>Dictyostelium</i> : understanding the regulation and function of the cGMP pathway for cell movement and chemotaxis. <i>Molecular Biology of the Cell</i> , 2021, 32, ar8.	2.1	3
13	Coordinated Ras and Rac Activity Shapes Macropinocytic Cups and Enables Phagocytosis of Geometrically Diverse Bacteria. <i>Current Biology</i> , 2020, 30, 2912-2926.e5.	3.9	33
14	The neuroprotective action of lenalidomide on rotenone model of Parkinson's Disease: Neurotrophic and supportive actions in the substantia nigra pars compacta. <i>Neuroscience Letters</i> , 2020, 738, 135308.	2.1	7
15	Allosteric modulation of the GTPase activity of a bacterial LRRK2 homolog by conformation-specific Nanobodies. <i>Biochemical Journal</i> , 2020, 477, 1203-1218.	3.7	12
16	Allosteric inhibition of LRRK2, where are we now. <i>Biochemical Society Transactions</i> , 2020, 48, 2185-2194.	3.4	10
17	Linalool attenuates oxidative stress and mitochondrial dysfunction mediated by glutamate and NMDA toxicity. <i>Biomedicine and Pharmacotherapy</i> , 2019, 118, 109295.	5.6	91
18	Roco Proteins: GTPases with a Baroque Structure and Mechanism. <i>International Journal of Molecular Sciences</i> , 2019, 20, 147.	4.1	31

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19	Structure and nucleotide-induced conformational dynamics of the <i>Chlorobium tepidum</i> Roco protein. <i>Biochemical Journal</i> , 2019, 476, 51-66.	3.7	21
20	Role of the small GTPase Rap1 in signal transduction, cell dynamics and bacterial infection. <i>Small GTPases</i> , 2019, 10, 336-342.	1.6	13
21	The cytoskeleton regulates symmetry transitions in moving amoeboid cells. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	7
22	The role of (auto)-phosphorylation in the complex activation mechanism of LRRK2. <i>Biological Chemistry</i> , 2018, 399, 643-647.	2.5	7
23	Connecting G protein signaling to chemoattractant-mediated cell polarity and cytoskeletal reorganization. <i>Small GTPases</i> , 2018, 9, 360-364.	1.6	12
24	Biochemical and kinetic properties of the complex Roco G-protein cycle. <i>Biological Chemistry</i> , 2018, 399, 1447-1456.	2.5	14
25	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
26	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
27	The LRR-Roc-COR module of the <i>Chlorobium tepidum</i> Roco protein: crystallization and X-ray crystallographic analysis. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2017, 73, 520-524.	0.8	5
28	GPCR-controlled membrane recruitment of negative regulator C2GAP1 locally inhibits Ras signaling for adaptation and long-range chemotaxis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E10092-E10101.	7.1	26
29	Activation Mechanism of LRRK2 and Its Cellular Functions in Parkinson's Disease. <i>Parkinson's Disease</i> , 2016, 2016, 1-8.	1.1	25
30	Function and Regulation of Heterotrimeric G Proteins during Chemotaxis. <i>International Journal of Molecular Sciences</i> , 2016, 17, 90.	4.1	24
31	The unconventional G-protein cycle of LRRK2 and Roco proteins. <i>Biochemical Society Transactions</i> , 2016, 44, 1611-1616.	3.4	11
32	A G β -Stimulated RapGEF Is a Receptor-Proximal Regulator of Dictyostelium Chemotaxis. <i>Developmental Cell</i> , 2016, 37, 458-472.	7.0	16
33	The small GTPases Ras and Rap1 bind to and control TORC2 activity. <i>Scientific Reports</i> , 2016, 6, 25823.	3.3	47
34	Direct Interaction between TalinB and Rap1 is necessary for adhesion of Dictyostelium cells. <i>BMC Cell Biology</i> , 2016, 17, 1.	3.0	49
35	Structural model of the dimeric Parkinson's protein LRRK2 reveals a compact architecture involving distant interdomain contacts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4357-E4366.	7.1	130
36	A Worldwide Competition to Compare the Speed and Chemotactic Accuracy of Neutrophil-Like Cells. <i>PLoS ONE</i> , 2016, 11, e0154491.	2.5	16

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37	Conformational heterogeneity of the Roc domains in <i>C. tepidum</i> Roc ^Δ COR and implications for human LRRK2 Parkinson mutations. <i>Bioscience Reports</i> , 2015, 35, .	2.4	17
38	Homer3 regulates the establishment of neutrophil polarity. <i>Molecular Biology of the Cell</i> , 2015, 26, 1629-1639.	2.1	19
39	Revisiting the Roco G-protein cycle. <i>Biochemical Journal</i> , 2015, 465, 139-147.	3.7	30
40	Structural Characterization of LRRK2 Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 3751-3756.	6.4	34
41	Structural biology of the LRRK2 GTPase and kinase domains: implications for regulation. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 32.	2.9	67
42	Rap1-dependent pathways coordinate cytokinesis in <i>Dictyostelium</i> . <i>Molecular Biology of the Cell</i> , 2014, 25, 4195-4204.	2.1	17
43	GxcC connects Rap and Rac signaling during <i>Dictyostelium</i> development. <i>BMC Cell Biology</i> , 2013, 14, 6.	3.0	13
44	Simple system ^Δ substantial share: The use of <i>Dictyostelium</i> in cell biology and molecular medicine. <i>European Journal of Cell Biology</i> , 2013, 92, 45-53.	3.6	88
45	Ras activation and symmetry breaking during <i>Dictyostelium</i> chemotaxis. <i>Journal of Cell Science</i> , 2013, 126, 4502-4513.	2.0	42
46	Daydreamer, a Ras effector and GSK-3 substrate, is important for directional sensing and cell motility. <i>Molecular Biology of the Cell</i> , 2013, 24, 100-114.	2.1	19
47	Reply to Tall et al.: <i>Dictyostelium</i> Ric8 does not have a chaperoning function during development and chemotaxis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3149-E3149.	7.1	1
48	<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
49	Multiple Regulatory Mechanisms for the <i>Dictyostelium</i> Roco Protein GbpC. <i>Journal of Biological Chemistry</i> , 2012, 287, 2749-2758.	3.4	11
50	Roco kinase structures give insights into the mechanism of Parkinson disease-related leucine-rich-repeat kinase 2 mutations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10322-10327.	7.1	91
51	<i>Dictyostelium</i> chemotaxis: essential Ras activation and accessory signalling pathways for amplification. <i>EMBO Reports</i> , 2011, 12, 1273-1279.	4.5	51
52	A Rap/Phosphatidylinositol 3-Kinase Pathway Controls Pseudopod Formation. <i>Molecular Biology of the Cell</i> , 2010, 21, 936-945.	2.1	38
53	Structure of the Roc ^Δ COR domain tandem of <i>C. tepidum</i> , a prokaryotic homologue of the human LRRK2 Parkinson kinase. <i>EMBO Journal</i> , 2008, 27, 2239-2249.	7.8	130
54	Structure of the Roc ^Δ COR domain tandem of <i>C. tepidum</i> , a prokaryotic homologue of the human LRRK2 Parkinson kinase. <i>EMBO Journal</i> , 2008, 27, 2352-2352.	7.8	30

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55	Highlighting the role of Ras and Rap during Dictyostelium chemotaxis. Cellular Signalling, 2008, 20, 1415-1422.	3.6	64
56	Intramolecular Activation Mechanism of the Dictyostelium LRRK2 Homolog Roco Protein GbpC. Journal of Biological Chemistry, 2008, 283, 30412-30420.	3.4	36
57	Chemoattractants and chemorepellents act by inducing opposite polarity in phospholipase C and PI3-kinase signaling. Journal of Cell Biology, 2007, 177, 579-585.	5.2	45
58	Phospholipase C Regulation of Phosphatidylinositol 3,4,5-trisphosphate-mediated Chemotaxis. Molecular Biology of the Cell, 2007, 18, 4772-4779.	2.1	66
59	Essential role of PI3-kinase and phospholipase A2 in Dictyostelium discoideum chemotaxis. Journal of Cell Biology, 2007, 177, 809-816.	5.2	101
60	Seven Dictyostelium discoideum phosphodiesterases degrade three pools of cAMP and cGMP. Biochemical Journal, 2007, 402, 153-161.	3.7	57
61	Cyclic AMP signalling in Dictyostelium: Gα proteins activate separate Ras pathways using specific RasGEFs. EMBO Reports, 2007, 8, 477-482.	4.5	36
62	Regulation of Phagocytosis in Dictyostelium by the Inositol 5-Phosphatase OCRL Homolog Dd5P4. Traffic, 2007, 8, 618-628.	2.7	61
63	DdPDE4, a Novel cAMP-specific Phosphodiesterase at the Surface of Dictyostelium Cells. Journal of Biological Chemistry, 2006, 281, 20018-20026.	3.4	19
64	Characterization of the GbpD-activated Rap1 Pathway Regulating Adhesion and Cell Polarity in Dictyostelium discoideum*. Journal of Biological Chemistry, 2006, 281, 23367-23376.	3.4	47
65	Phosducin-like proteins in Dictyostelium discoideum: implications for the phosducin family of proteins. EMBO Journal, 2003, 22, 5047-5057.	7.8	54