

GÃ¡spÃ¡r JÃ©kely

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

6,021
citations

87888

38
h-index

88630

70
g-index

119
all docs

119
docs citations

119
times ranked

5204
citing authors

#	ARTICLE	IF	CITATIONS
1	Premetazoan Origin of Neuropeptide Signaling. <i>Molecular Biology and Evolution</i> , 2022, 39, .	8.9	38
2	Origins of eukaryotic excitability. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20190758.	4.0	44
3	Reafference and the origin of the self in early nervous system evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20190764.	4.0	30
4	Animal Phylogeny: Resolving the Slugfest of Ctenophores, Sponges and Acoels?. <i>Current Biology</i> , 2021, 31, R202-R204.	3.9	6
5	The chemical brain hypothesis for the origin of nervous systems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20190761.	4.0	52
6	Nemertean, Brachiopod, and Phoronid Neuropeptidomics Reveals Ancestral Spiralian Signaling Systems. <i>Molecular Biology and Evolution</i> , 2021, 38, 4847-4866.	8.9	29
7	The Nereid on the rise: <i>Platynereis</i> as a model system. <i>EvoDevo</i> , 2021, 12, 10.	3.2	34
8	Flatworm behaviour: Pieces behaving like wholes. <i>Current Biology</i> , 2021, 31, R1472-R1474.	3.9	0
9	Evolution of synapses and neurotransmitter systems: The divide-and-conquer model for early neural cell-type evolution. <i>Current Opinion in Neurobiology</i> , 2021, 71, 127-138.	4.2	16
10	Nervous systems: Neuropeptides define enigmatic comb-jelly neurons. <i>Current Biology</i> , 2021, 31, R1515-R1517.	3.9	2
11	On the unity and diversity of cilia. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190148.	4.0	16
12	Neuronal coordination of motile cilia in locomotion and feeding. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190165.	4.0	34
13	Diversity of cilia-based mechanosensory systems and their functions in marine animal behaviour. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190376.	4.0	37
14	A G protein-coupled receptor mediates neuropeptide-induced oocyte maturation in the jellyfish <i>Clytia</i> . <i>PLoS Biology</i> , 2020, 18, e3000614.	5.6	31
15	Spinning disk-remote focusing microscopy. <i>Biomedical Optics Express</i> , 2020, 11, 2874.	2.9	7
16	A nemertean excitatory peptide/CCHamide regulates ciliary swimming in the larvae of <i>Lineus longissimus</i> . <i>Frontiers in Zoology</i> , 2019, 16, 28.	2.0	8
17	Content-aware image restoration for electron microscopy. <i>Methods in Cell Biology</i> , 2019, 152, 277-289.	1.1	71
18	Editorial overview: Tissue-level dynamics in development and evolution. <i>Current Opinion in Genetics and Development</i> , 2019, 57, iii-v.	3.3	0

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19	Neuronal cell types in the annelid <i>Platynereis dumerilii</i> . <i>Current Opinion in Neurobiology</i> , 2019, 56, 106-116.	4.2	17
20	Glass confers rhabdomeric photoreceptor identity in <i>Drosophila</i> , but not across all metazoans. <i>EvoDevo</i> , 2019, 10, 4.	3.2	1
21	Evolution: How Not to Become an Animal. <i>Current Biology</i> , 2019, 29, R1240-R1242.	3.9	3
22	The long and the short of it â€“ a perspective on peptidergic regulation of circuits and behaviour. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	75
23	Whole-head recording of chemosensory activity in the marine annelid <i>Platynereis dumerilii</i> . <i>Open Biology</i> , 2018, 8, .	3.6	23
24	Dual signaling of Wamide myoinhibitory peptides through a peptide-gated channel and a GPCR in <i>Platynereis</i> . <i>FASEB Journal</i> , 2018, 32, 5338-5349.	0.5	29
25	High Cell Diversity and Complex Peptidergic Signaling Underlie Placozoan Behavior. <i>Current Biology</i> , 2018, 28, 3495-3501.e2.	3.9	84
26	Ciliary and rhabdomeric photoreceptor-cell circuits form a spectral depth gauge in marine zooplankton. <i>ELife</i> , 2018, 7, .	6.0	37
27	A gonad-expressed opsin mediates light-induced spawning in the jellyfish <i>Clytia</i> . <i>ELife</i> , 2018, 7, .	6.0	69
28	Neural circuitry of a polycystin-mediated hydrodynamic startle response for predator avoidance. <i>ELife</i> , 2018, 7, .	6.0	44
29	Ancient coexistence of norepinephrine, tyramine, and octopamine signaling in bilaterians. <i>BMC Biology</i> , 2017, 15, 6.	3.8	71
30	Back to the Basics: Cnidarians Start to Fire. <i>Trends in Neurosciences</i> , 2017, 40, 92-105.	8.6	102
31	High diversity in neuropeptide immunoreactivity patterns among three closely related species of <i>Dinophilidae</i> (Annelida). <i>Journal of Comparative Neurology</i> , 2017, 525, 3596-3635.	1.6	25
32	An ancient FMRFamide-related peptide-receptor pair induces defence behaviour in a brachiopod larva. <i>Open Biology</i> , 2017, 7, 170136.	3.6	21
33	Ciliomotor circuitry underlying whole-body coordination of ciliary activity in the <i>Platynereis</i> larva. <i>ELife</i> , 2017, 6, .	6.0	57
34	Synaptic and peptidergic connectome of a neurosecretory center in the annelid brain. <i>ELife</i> , 2017, 6, .	6.0	78
35	Towards a systems-level understanding of development in the marine annelid <i>Platynereis dumerilii</i> . <i>Current Opinion in Genetics and Development</i> , 2016, 39, 175-181.	3.3	29
36	Phototaxis and the origin of visual eyes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150042.	4.0	58

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37	Think small. <i>ELife</i> , 2016, 5, .	6.0	3
38	The phylogenetic position of ctenophores and the origin(s) of nervous systems. <i>EvoDevo</i> , 2015, 6, 1.	3.2	148
39	Large-Scale Combinatorial Deorphanization of Platynereis Neuropeptide GPCRs. <i>Cell Reports</i> , 2015, 12, 684-693.	6.4	120
40	Myoinhibitory peptide regulates feeding in the marine annelid <i>Platynereis</i> . <i>Frontiers in Zoology</i> , 2015, 12, 1.	2.0	116
41	Spectral Tuning of Phototaxis by a Go-Opsin in the Rhabdomeric Eyes of <i>Platynereis</i> . <i>Current Biology</i> , 2015, 25, 2265-2271.	3.9	71
42	Object-based representation and analysis of light and electron microscopic volume data using Blender. <i>BMC Bioinformatics</i> , 2015, 16, 229.	2.6	12
43	Site-Directed RNA Editing in Vivo Can Be Triggered by the Light-Driven Assembly of an Artificial Riboprotein. <i>Journal of the American Chemical Society</i> , 2015, 137, 15875-15881.	13.7	63
44	An option space for early neural evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20150181.	4.0	116
45	Inter-individual stereotypy of the <i>Platynereis</i> larval visual connectome. <i>ELife</i> , 2015, 4, e08069.	6.0	53
46	A serial multiplex immunogold labeling method for identifying peptidergic neurons in connectomes. <i>ELife</i> , 2015, 4, .	6.0	57
47	Origin and Evolution of the Self-Organizing Cytoskeleton in the Network of Eukaryotic Organelles. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014, 6, a016030-a016030.	5.5	30
48	Neuronal connectome of a sensory-motor circuit for visual navigation. <i>ELife</i> , 2014, 3, .	6.0	100
49	Deep transcriptome-sequencing and proteome analysis of the hydrothermal vent annelid <i>Alvinella pompejana</i> identifies the CvP-bias as a robust measure of eukaryotic thermostability. <i>Biology Direct</i> , 2013, 8, 2.	4.6	47
50	Wnt6 is required for maxillary palp formation in <i>Drosophila</i> . <i>BMC Biology</i> , 2013, 11, 104.	3.8	27
51	The neuropeptide complement of the marine annelid <i>Platynereis dumerilii</i> . <i>BMC Genomics</i> , 2013, 14, 906.	2.8	139
52	Global view of the evolution and diversity of metazoan neuropeptide signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8702-8707.	7.1	402
53	Put a tiger in your tank: the polyclad flatworm <i>Maritigrella crozieri</i> as a proposed model for evo-devo. <i>EvoDevo</i> , 2013, 4, 29.	3.2	29
54	Expression Dynamics and Protein Localization of Rhabdomeric Opsins in <i>Platynereis</i> Larvae. <i>Integrative and Comparative Biology</i> , 2013, 53, 7-16.	2.0	45

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55	Conserved MIP receptorâ€“ligand pair regulates <i>Platynereis</i> larval settlement. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8224-8229.	7.1	128
56	Antibodies against conserved amidated neuropeptide epitopes enrich the comparative neurobiology toolbox. <i>EvoDevo</i> , 2012, 3, 23.	3.2	55
57	Whole-body gene expression pattern registration in <i>Platynereis</i> larvae. <i>EvoDevo</i> , 2012, 3, 27.	3.2	59
58	Neuropeptides regulate swimming depth of <i>Platynereis</i> larvae. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E1174-83.	7.1	109
59	Origin and early evolution of neural circuits for the control of ciliary locomotion. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 914-922.	2.6	71
60	Evolution of phototaxis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 2795-2808.	4.0	190
61	The evolution of nervous system centralization. , 2009, , 65-70.		0
62	Mechanism of phototaxis in marine zooplankton. <i>Nature</i> , 2008, 456, 395-399.	27.8	254
63	Origin of the nucleus and Ran-dependent transport to safeguard ribosome biogenesis in a chimeric cell. <i>Biology Direct</i> , 2008, 3, 31.	4.6	29
64	Chapter 3 How Did the Cilium Evolve?. <i>Current Topics in Developmental Biology</i> , 2008, 85, 63-82.	2.2	99
65	The evolution of nervous system centralization. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 1523-1528.	4.0	172
66	Evolution of the Golgi complex. , 2008, , 675-691.		2
67	Molecular Architecture of Annelid Nerve Cord Supports Common Origin of Nervous System Centralization in Bilateria. <i>Cell</i> , 2007, 129, 277-288.	28.9	406
68	Origin of Eukaryotic Endomembranes: A Critical Evaluation of Different Model Scenarios. <i>Advances in Experimental Medicine and Biology</i> , 2007, 607, 38-51.	1.6	40
69	Origin of phagotrophic eukaryotes as social cheaters in microbial biofilms. <i>Biology Direct</i> , 2007, 2, 3.	4.6	22
70	Cellular resolution expression profiling using confocal detection of NBT/BCIP precipitate by reflection microscopy. <i>BioTechniques</i> , 2007, 42, 751-755.	1.8	72
71	Did the last common ancestor have a biological membrane?. <i>Biology Direct</i> , 2006, 1, 35.	4.6	38
72	Evolution of intraflagellar transport from coated vesicles and autogenous origin of the eukaryotic cilium. <i>BioEssays</i> , 2006, 28, 191-198.	2.5	206

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73	Ancestry of Photic and Mechanic Sensation?. Science, 2005, 308, 1113-1114.	12.6	33
74	Glimpsing Over the Event Horizon: Evolution of Nuclear Pores and Envelope. Cell Cycle, 2005, 4, 296-298.	2.6	14
75	Regulators of Endocytosis Maintain Localized Receptor Tyrosine Kinase Signaling in Guided Migration. Developmental Cell, 2005, 9, 197-207.	7.0	196
76	Least of all visible things. FEBS Letters, 2005, 579, 3202-3202.	2.8	0
77	Glimpsing over the event horizon: evolution of nuclear pores and envelope. Cell Cycle, 2005, 4, 297-9.	2.6	6
78	Autolytic activation and localization in Schneider cells (S2) of calpain B from Drosophila. Biochemical Journal, 2004, 378, 299-305.	3.7	18
79	Small GTPases and the evolution of the eukaryotic cell. BioEssays, 2003, 25, 1129-1138.	2.5	119
80	Hrs mediates downregulation of multiple signalling receptors in Drosophila. EMBO Reports, 2003, 4, 1163-1168.	4.5	135
81	A novel human small subunit of calpains. Biochemical Journal, 2002, 362, 383.	3.7	26
82	A novel human small subunit of calpains. Biochemical Journal, 2002, 362, 383-388.	3.7	35
83	The human genome sequence: a triumph of chemistry. EMBO Reports, 2002, 3, 594-595.	4.5	0
84	Cloning and expression of sprint, a Drosophila homologue of RIN1. Mechanisms of Development, 2001, 101, 259-262.	1.7	22
85	Guidance of Cell Migration by the Drosophila PDGF/VEGF Receptor. Cell, 2001, 107, 17-26.	28.9	428
86	Drosophila Calpains Purification of a Calpain-like Enzyme from Fruit Flies, and Expression in Escherichia coli. , 2000, 144, 67-74.		1
87	Characterization of Two Recombinant Drosophila Calpains. Journal of Biological Chemistry, 1999, 274, 23893-23900.	3.4	31
88	The Evolution of the Calpain Family as Reflected in Paralogous Chromosome Regions. Journal of Molecular Evolution, 1999, 49, 272-281.	1.8	41
89	TER94, a Drosophila homolog of the membrane fusion protein CDC48/p97, is accumulated in nonproliferating cells: in the reproductive organs and in the brain of the imago. Insect Biochemistry and Molecular Biology, 1998, 28, 91-98.	2.7	38