

GÃ¡spÃ¡r JÃ©kely

List of Publications by Year in descending order

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89
papers

6,021
citations

87723

38
h-index

88477

70
g-index

119
all docs

119
docs citations

119
times ranked

5204
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidance of Cell Migration by the Drosophila PDGF/VEGF Receptor. <i>Cell</i> , 2001, 107, 17-26.	13.5	428
2	Molecular Architecture of Annelid Nerve Cord Supports Common Origin of Nervous System Centralization in Bilateria. <i>Cell</i> , 2007, 129, 277-288.	13.5	406
3	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.	3.3	402
4	Mechanism of phototaxis in marine zooplankton. <i>Nature</i> , 2008, 456, 395-399.	13.7	254
5	Evolution of intraflagellar transport from coated vesicles and autogenous origin of the eukaryotic cilium. <i>BioEssays</i> , 2006, 28, 191-198.	1.2	206
6	Regulators of Endocytosis Maintain Localized Receptor Tyrosine Kinase Signaling in Guided Migration. <i>Developmental Cell</i> , 2005, 9, 197-207.	3.1	196
7	Evolution of phototaxis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 2795-2808.	1.8	190
8	The evolution of nervous system centralization. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 1523-1528.	1.8	172
9	The phylogenetic position of ctenophores and the origin(s) of nervous systems. <i>EvoDevo</i> , 2015, 6, 1.	1.3	148
10	The neuropeptide complement of the marine annelid <i>Platynereis dumerilii</i> . <i>BMC Genomics</i> , 2013, 14, 906.	1.2	139
11	Hrs mediates downregulation of multiple signalling receptors in <i>Drosophila</i> . <i>EMBO Reports</i> , 2003, 4, 1163-1168.	2.0	135
12	Conserved MIP receptorâ€“ligand pair regulates <i>Platynereis</i> larval settlement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8224-8229.	3.3	128
13	Large-Scale Combinatorial Deorphanization of <i>Platynereis</i> Neuropeptide GPCRs. <i>Cell Reports</i> , 2015, 12, 684-693.	2.9	120
14	Small GTPases and the evolution of the eukaryotic cell. <i>BioEssays</i> , 2003, 25, 1129-1138.	1.2	119
15	Myoinhibitory peptide regulates feeding in the marine annelid <i>Platynereis</i> . <i>Frontiers in Zoology</i> , 2015, 12, 1.	0.9	116
16	An option space for early neural evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20150181.	1.8	116
17	Neuropeptides regulate swimming depth of <i>Platynereis</i> larvae. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E1174-83.	3.3	109
18	Back to the Basics: Cnidarians Start to Fire. <i>Trends in Neurosciences</i> , 2017, 40, 92-105.	4.2	102

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19	Neuronal connectome of a sensory-motor circuit for visual navigation. <i>ELife</i> , 2014, 3, .	2.8	100
20	Chapter 3 How Did the Cilium Evolve?. <i>Current Topics in Developmental Biology</i> , 2008, 85, 63-82.	1.0	99
21	High Cell Diversity and Complex Peptidergic Signaling Underlie Placozoan Behavior. <i>Current Biology</i> , 2018, 28, 3495-3501.e2.	1.8	84
22	Synaptic and peptidergic connectome of a neurosecretory center in the annelid brain. <i>ELife</i> , 2017, 6, .	2.8	78
23	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, .	0.8	75
24	Cellular resolution expression profiling using confocal detection of NBT/BCIP precipitate by reflection microscopy. <i>BioTechniques</i> , 2007, 42, 751-755.	0.8	72
25	Origin and early evolution of neural circuits for the control of ciliary locomotion. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 914-922.	1.2	71
26	Spectral Tuning of Phototaxis by a Go-Opsin in the Rhabdomeric Eyes of Platynereis. <i>Current Biology</i> , 2015, 25, 2265-2271.	1.8	71
27	Ancient coexistence of norepinephrine, tyramine, and octopamine signaling in bilaterians. <i>BMC Biology</i> , 2017, 15, 6.	1.7	71
28	Content-aware image restoration for electron microscopy. <i>Methods in Cell Biology</i> , 2019, 152, 277-289.	0.5	71
29	A gonad-expressed opsin mediates light-induced spawning in the jellyfish <i>Clytia</i> . <i>ELife</i> , 2018, 7, .	2.8	69
30	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.	6.6	63
31	Whole-body gene expression pattern registration in Platynereis larvae. <i>EvoDevo</i> , 2012, 3, 27.	1.3	59
32	Phototaxis and the origin of visual eyes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150042.	1.8	58
33	A serial multiplex immunogold labeling method for identifying peptidergic neurons in connectomes. <i>ELife</i> , 2015, 4, .	2.8	57
34	Ciliomotor circuitry underlying whole-body coordination of ciliary activity in the Platynereis larva. <i>ELife</i> , 2017, 6, .	2.8	57
35	Antibodies against conserved amidated neuropeptide epitopes enrich the comparative neurobiology toolbox. <i>EvoDevo</i> , 2012, 3, 23.	1.3	55
36	Inter-individual stereotypy of the Platynereis larval visual connectome. <i>ELife</i> , 2015, 4, e08069.	2.8	53

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37	The chemical brain hypothesis for the origin of nervous systems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20190761.	1.8	52
38	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.	1.9	47
39	Expression Dynamics and Protein Localization of Rhabdomeric Opsins in <i>Platynereis</i> Larvae. <i>Integrative and Comparative Biology</i> , 2013, 53, 7-16.	0.9	45
40	Origins of eukaryotic excitability. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20190758.	1.8	44
41	Neural circuitry of a polycystin-mediated hydrodynamic startle response for predator avoidance. <i>ELife</i> , 2018, 7, .	2.8	44
42	The Evolution of the Calpain Family as Reflected in Paralogous Chromosome Regions. <i>Journal of Molecular Evolution</i> , 1999, 49, 272-281.	0.8	41
43	Origin of Eukaryotic Endomembranes: A Critical Evaluation of Different Model Scenarios. <i>Advances in Experimental Medicine and Biology</i> , 2007, 607, 38-51.	0.8	40
44	TER94, a <i>Drosophila</i> homolog of the membrane fusion protein CDC48/p97, is accumulated in nonproliferating cells: in the reproductive organs and in the brain of the imago. <i>Insect Biochemistry and Molecular Biology</i> , 1998, 28, 91-98.	1.2	38
45	Did the last common ancestor have a biological membrane?. <i>Biology Direct</i> , 2006, 1, 35.	1.9	38
46	Premetazoan Origin of Neuropeptide Signaling. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	38
47	Ciliary and rhabdomeric photoreceptor-cell circuits form a spectral depth gauge in marine zooplankton. <i>ELife</i> , 2018, 7, .	2.8	37
48	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.	1.8	37
49	A novel human small subunit of calpains. <i>Biochemical Journal</i> , 2002, 362, 383-388.	1.7	35
50	Neuronal coordination of motile cilia in locomotion and feeding. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190165.	1.8	34
51	The Nereid on the rise: <i>Platynereis</i> as a model system. <i>EvoDevo</i> , 2021, 12, 10.	1.3	34
52	Ancestry of Photic and Mechanic Sensation?. <i>Science</i> , 2005, 308, 1113-1114.	6.0	33
53	Characterization of Two Recombinant <i>Drosophila</i> Calpains. <i>Journal of Biological Chemistry</i> , 1999, 274, 23893-23900.	1.6	31
54	A G protein-coupled receptor mediates neuropeptide-induced oocyte maturation in the jellyfish <i>Clytia</i> . <i>PLoS Biology</i> , 2020, 18, e3000614.	2.6	31

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55	Origin and Evolution of the Self-Organizing Cytoskeleton in the Network of Eukaryotic Organelles. Cold Spring Harbor Perspectives in Biology, 2014, 6, a016030-a016030.	2.3	30
56	Reafference and the origin of the self in early nervous system evolution. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20190764.	1.8	30
57	Origin of the nucleus and Ran-dependent transport to safeguard ribosome biogenesis in a chimeric cell. Biology Direct, 2008, 3, 31.	1.9	29
58	Put a tiger in your tank: the polyclad flatworm Maritigrella crozieri as a proposed model for evo-devo. EvoDevo, 2013, 4, 29.	1.3	29
59	Towards a systems-level understanding of development in the marine annelid Platynereis dumerilii. Current Opinion in Genetics and Development, 2016, 39, 175-181.	1.5	29
60	Dual signaling of Wamide myoinhibitory peptides through a peptide-gated channel and a GPCR in <i>Platynereis</i> . FASEB Journal, 2018, 32, 5338-5349.	0.2	29
61	Nemertean, Brachiopod, and Phoronid Neuropeptidomics Reveals Ancestral Spiralian Signaling Systems. Molecular Biology and Evolution, 2021, 38, 4847-4866.	3.5	29
62	Wnt6 is required for maxillary palp formation in Drosophila. BMC Biology, 2013, 11, 104.	1.7	27
63	A novel human small subunit of calpains. Biochemical Journal, 2002, 362, 383.	1.7	26
64	High diversity in neuropeptide immunoreactivity patterns among three closely related species of Dinophilidae (Annelida). Journal of Comparative Neurology, 2017, 525, 3596-3635.	0.9	25
65	Whole-head recording of chemosensory activity in the marine annelid <i>Platynereis dumerilii</i> . Open Biology, 2018, 8, .	1.5	23
66	Cloning and expression of sprint, a Drosophila homologue of RIN1. Mechanisms of Development, 2001, 101, 259-262.	1.7	22
67	Origin of phagotrophic eukaryotes as social cheaters in microbial biofilms. Biology Direct, 2007, 2, 3.	1.9	22
68	An ancient FMRFamide-related peptide-receptor pair induces defence behaviour in a brachiopod larva. Open Biology, 2017, 7, 170136.	1.5	21
69	Autolytic activation and localization in Schneider cells (S2) of calpain B from Drosophila. Biochemical Journal, 2004, 378, 299-305.	1.7	18
70	Neuronal cell types in the annelid Platynereis dumerilii. Current Opinion in Neurobiology, 2019, 56, 106-116.	2.0	17
71	On the unity and diversity of cilia. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190148.	1.8	16
72	Evolution of synapses and neurotransmitter systems: The divide-and-conquer model for early neural cell-type evolution. Current Opinion in Neurobiology, 2021, 71, 127-138.	2.0	16

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73	Glimpsing Over the Event Horizon: Evolution of Nuclear Pores and Envelope. <i>Cell Cycle</i> , 2005, 4, 296-298.	1.3	14
74	Object-based representation and analysis of light and electron microscopic volume data using Blender. <i>BMC Bioinformatics</i> , 2015, 16, 229.	1.2	12
75	A nemertean excitatory peptide/CCHamide regulates ciliary swimming in the larvae of <i>Lineus longissimus</i> . <i>Frontiers in Zoology</i> , 2019, 16, 28.	0.9	8
76	Spinning disk-remote focusing microscopy. <i>Biomedical Optics Express</i> , 2020, 11, 2874.	1.5	7
77	Animal Phylogeny: Resolving the Slugfest of Ctenophores, Sponges and Acoels?. <i>Current Biology</i> , 2021, 31, R202-R204.	1.8	6
78	Glimpsing over the event horizon: evolution of nuclear pores and envelope. <i>Cell Cycle</i> , 2005, 4, 297-9.	1.3	6
79	Evolution: How Not to Become an Animal. <i>Current Biology</i> , 2019, 29, R1240-R1242.	1.8	3
80	Think small. <i>ELife</i> , 2016, 5, .	2.8	3
81	Evolution of the Golgi complex. , 2008, , 675-691.		2
82	Nervous systems: Neuropeptides define enigmatic comb-jelly neurons. <i>Current Biology</i> , 2021, 31, R1515-R1517.	1.8	2
83	<i>Drosophila</i> Calpains Purification of a Calpain-like Enzyme from Fruit Flies, and Expression in <i>Escherichia coli</i> . , 2000, 144, 67-74.		1
84	Glass confers rhabdomeric photoreceptor identity in <i>Drosophila</i> , but not across all metazoans. <i>EvoDevo</i> , 2019, 10, 4.	1.3	1
85	The human genome sequence: a triumph of chemistry. <i>EMBO Reports</i> , 2002, 3, 594-595.	2.0	0
86	Least of all visible things. <i>FEBS Letters</i> , 2005, 579, 3202-3202.	1.3	0
87	Editorial overview: Tissue-level dynamics in development and evolution. <i>Current Opinion in Genetics and Development</i> , 2019, 57, iii-v.	1.5	0
88	The evolution of nervous system centralization. , 2009, , 65-70.		0
89	Flatworm behaviour: Pieces behaving like wholes. <i>Current Biology</i> , 2021, 31, R1472-R1474.	1.8	0