

# Gspr Jkely

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101  
papers

4,354  
citations

36  
h-index

65  
g-index

119  
ext. papers

5,312  
ext. citations

7.8  
avg, IF

6.2  
L-index

#	Paper	IF	Citations
101	Pre-metazoan origin of neuropeptide signalling.. <i>Molecular Biology and Evolution</i> , <b>2022</b> ,	8.3	2
100	Flatworm behaviour: Pieces behaving like wholes. <i>Current Biology</i> , <b>2021</b> , 31, R1472-R1474	6.3	
99	Evolution of synapses and neurotransmitter systems: The divide-and-conquer model for early neural cell-type evolution. <i>Current Opinion in Neurobiology</i> , <b>2021</b> , 71, 127-138	7.6	4
98	Nemertean, Brachiopod, and Phoronid Neuropeptidomics Reveals Ancestral Spiralian Signaling Systems. <i>Molecular Biology and Evolution</i> , <b>2021</b> , 38, 4847-4866	8.3	7
97	Origins of eukaryotic excitability. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2021</b> , 376, 20190758	5.8	17
96	Reafference and the origin of the self in early nervous system evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2021</b> , 376, 20190764	5.8	11
95	Animal Phylogeny: Resolving the Slugfest of Ctenophores, Sponges and Acoels?. <i>Current Biology</i> , <b>2021</b> , 31, R202-R204	6.3	1
94	The chemical brain hypothesis for the origin of nervous systems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2021</b> , 376, 20190761	5.8	17
93	The Nereid on the rise: Platynereis as a model system. <i>EvoDevo</i> , <b>2021</b> , 12, 10	3.2	4
92	Nervous systems: Neuropeptides define enigmatic comb-jelly neurons. <i>Current Biology</i> , <b>2021</b> , 31, R1515-R1517	6.3	10
91	A G protein-coupled receptor mediates neuropeptide-induced oocyte maturation in the jellyfish Clytia. <i>PLoS Biology</i> , <b>2020</b> , 18, e3000614	9.7	16
90	Spinning disk-remote focusing microscopy. <i>Biomedical Optics Express</i> , <b>2020</b> , 11, 2874-2888	3.5	3
89	On the unity and diversity of cilia. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 375, 20190148	5.8	5
88	Neuronal coordination of motile cilia in locomotion and feeding. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 375, 20190165	5.8	10
87	Diversity of cilia-based mechanosensory systems and their functions in marine animal behaviour. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 375, 20190376	5.8	12
86	Neuronal cell types in the annelid <i>Platynereis dumerilii</i> . <i>Current Opinion in Neurobiology</i> , <b>2019</b> , 56, 106-116	6.6	6
85	Glass confers rhabdomeric photoreceptor identity in , but not across all metazoans. <i>EvoDevo</i> , <b>2019</b> , 10, 4	3.2	1

84	A nemertean excitatory peptide/CCHamide regulates ciliary swimming in the larvae of. <i>Frontiers in Zoology</i> , <b>2019</b> , 16, 28	2.8	6
83	Content-aware image restoration for electron microscopy. <i>Methods in Cell Biology</i> , <b>2019</b> , 152, 277-289	1.8	21
82	Evolution: How Not to Become an Animal. <i>Current Biology</i> , <b>2019</b> , 29, R1240-R1242	6.3	1
81	The long and the short of it - a perspective on peptidergic regulation of circuits and behaviour. <i>Journal of Experimental Biology</i> , <b>2018</b> , 221,	3	46
80	Neural circuitry of a polycystin-mediated hydrodynamic startle response for predator avoidance. <i>ELife</i> , <b>2018</b> , 7,	8.9	28
79	Whole-head recording of chemosensory activity in the marine annelid. <i>Open Biology</i> , <b>2018</b> , 8,	7	13
78	Dual signaling of Wamide myoinhibitory peptides through a peptide-gated channel and a GPCR in <i>Platynereis</i> . <i>FASEB Journal</i> , <b>2018</b> , 32, 5338-5349	0.9	9
77	High Cell Diversity and Complex Peptidergic Signaling Underlie Placozoan Behavior. <i>Current Biology</i> , <b>2018</b> , 28, 3495-3501.e2	6.3	54
76	Ciliary and rhabdomeric photoreceptor-cell circuits form a spectral depth gauge in marine zooplankton. <i>ELife</i> , <b>2018</b> , 7,	8.9	15
75	A gonad-expressed opsin mediates light-induced spawning in the jellyfish. <i>ELife</i> , <b>2018</b> , 7,	8.9	46
74	Ancient coexistence of norepinephrine, tyramine, and octopamine signaling in bilaterians. <i>BMC Biology</i> , <b>2017</b> , 15, 6	7.3	49
73	Back to the Basics: Cnidarians Start to Fire. <i>Trends in Neurosciences</i> , <b>2017</b> , 40, 92-105	13.3	65
72	An ancient FMRFamide-related peptide-receptor pair induces defence behaviour in a brachiopod larva. <i>Open Biology</i> , <b>2017</b> , 7,	7	12
71	High diversity in neuropeptide immunoreactivity patterns among three closely related species of Dinophilidae (Annelida). <i>Journal of Comparative Neurology</i> , <b>2017</b> , 525, 3596-3635	3.4	12
70	Ciliomotor circuitry underlying whole-body coordination of ciliary activity in the larva. <i>ELife</i> , <b>2017</b> , 6,	8.9	32
69	Synaptic and peptidergic connectome of a neurosecretory center in the annelid brain. <i>ELife</i> , <b>2017</b> , 6,	8.9	40
68	Author response: Synaptic and peptidergic connectome of a neurosecretory center in the annelid brain <b>2017</b> ,		2
67	Phototaxis and the origin of visual eyes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 371, 20150042	5.8	43

66	Think small. <i>ELife</i> , <b>2016</b> , 5,	8.9	2
65	Towards a systems-level understanding of development in the marine annelid <i>Platynereis dumerilii</i> . <i>Current Opinion in Genetics and Development</i> , <b>2016</b> , 39, 175-181	4.9	19
64	Large-Scale Combinatorial Deorphanization of <i>Platynereis</i> Neuropeptide GPCRs. <i>Cell Reports</i> , <b>2015</b> , 12, 684-93	10.6	81
63	Myoinhibitory peptide regulates feeding in the marine annelid <i>Platynereis</i> . <i>Frontiers in Zoology</i> , <b>2015</b> , 12, 1	2.8	70
62	Spectral Tuning of Phototaxis by a Go-Opin in the Rhabdomeric Eyes of <i>Platynereis</i> . <i>Current Biology</i> , <b>2015</b> , 25, 2265-71	6.3	49
61	Object-based representation and analysis of light and electron microscopic volume data using Blender. <i>BMC Bioinformatics</i> , <b>2015</b> , 16, 229	3.6	9
60	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> , <b>2015</b> , 137, 15875-81	16.4	48
59	An option space for early neural evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2015</b> , 370,	5.8	59
58	The phylogenetic position of ctenophores and the origin(s) of nervous systems. <i>EvoDevo</i> , <b>2015</b> , 6, 1	3.2	97
57	Inter-individual stereotypy of the <i>Platynereis</i> larval visual connectome. <i>ELife</i> , <b>2015</b> , 4, e08069	8.9	39
56	A serial multiplex immunogold labeling method for identifying peptidergic neurons in connectomes. <i>ELife</i> , <b>2015</b> , 4,	8.9	33
55	Origin and evolution of the self-organizing cytoskeleton in the network of eukaryotic organelles. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2014</b> , 6, a016030	10.2	25
54	Origin and evolution of the self-organizing cytoskeleton in the network of eukaryotic organelles <b>2014</b> ,		2
53	Neuronal connectome of a sensory-motor circuit for visual navigation. <i>ELife</i> , <b>2014</b> , 3,	8.9	76
52	Author response: Neuronal connectome of a sensory-motor circuit for visual navigation <b>2014</b> ,		2
51	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> , <b>2013</b> , 8, 2	7.2	40
50	Wnt6 is required for maxillary palp formation in <i>Drosophila</i> . <i>BMC Biology</i> , <b>2013</b> , 11, 104	7.3	21
49	The neuropeptide complement of the marine annelid <i>Platynereis dumerilii</i> . <i>BMC Genomics</i> , <b>2013</b> , 14, 906	4.5	91

48	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> , <b>2013</b> , 110, 8702-7	11.5	257
47	Put a tiger in your tank: the polyclad flatworm <i>Maritigrella crozieri</i> as a proposed model for evo-devo. <i>EvoDevo</i> , <b>2013</b> , 4, 29	3.2	22
46	Expression dynamics and protein localization of rhabdomic opsins in <i>Platynereis</i> larvae. <i>Integrative and Comparative Biology</i> , <b>2013</b> , 53, 7-16	2.8	33
45	Conserved MIP receptor-ligand pair regulates <i>Platynereis</i> larval settlement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 8224-9	11.5	83
44	Antibodies against conserved amidated neuropeptide epitopes enrich the comparative neurobiology toolbox. <i>EvoDevo</i> , <b>2012</b> , 3, 23	3.2	42
43	Whole-body gene expression pattern registration in <i>Platynereis</i> larvae. <i>EvoDevo</i> , <b>2012</b> , 3, 27	3.2	50
42	Neuropeptides regulate swimming depth of <i>Platynereis</i> larvae. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, E1174-83	11.5	78
41	Origin and early evolution of neural circuits for the control of ciliary locomotion. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2011</b> , 278, 914-22	4.4	62
40	Evolution of phototaxis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 2795-808	5.8	146
39	Mechanism of phototaxis in marine zooplankton. <i>Nature</i> , <b>2008</b> , 456, 395-9	50.4	208
38	Origin of the nucleus and Ran-dependent transport to safeguard ribosome biogenesis in a chimeric cell. <i>Biology Direct</i> , <b>2008</b> , 3, 31	7.2	26
37	How did the cilium evolve?. <i>Current Topics in Developmental Biology</i> , <b>2008</b> , 85, 63-82	5.3	82
36	The evolution of nervous system centralization. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2008</b> , 363, 1523-8	5.8	152
35	Evolution of the Golgi complex <b>2008</b> , 675-691		1
34	Origin of phagotrophic eukaryotes as social cheaters in microbial biofilms. <i>Biology Direct</i> , <b>2007</b> , 2, 3	7.2	20
33	Cellular resolution expression profiling using confocal detection of NBT/BCIP precipitate by reflection microscopy. <i>BioTechniques</i> , <b>2007</b> , 42, 751-5	2.5	67
32	Molecular architecture of annelid nerve cord supports common origin of nervous system centralization in bilateria. <i>Cell</i> , <b>2007</b> , 129, 277-88	56.2	345
31	Origin of eukaryotic endomembranes: a critical evaluation of different model scenarios. <i>Advances in Experimental Medicine and Biology</i> , <b>2007</b> , 607, 38-51	3.6	35

30	Evolution of intraflagellar transport from coated vesicles and autogenous origin of the eukaryotic cilium. <i>BioEssays</i> , <b>2006</b> , 28, 191-8	4.1	192
29	Did the last common ancestor have a biological membrane?. <i>Biology Direct</i> , <b>2006</b> , 1, 35	7.2	37
28	Ancestry of Photic and Mechanic Sensation?. <i>Science</i> , <b>2005</b> , 308, 1113-1114	33.3	29
27	Glimpsing Over the Event Horizon: Evolution of Nuclear Pores and Envelope. <i>Cell Cycle</i> , <b>2005</b> , 4, 296-298	4.7	9
26	Regulators of endocytosis maintain localized receptor tyrosine kinase signaling in guided migration. <i>Developmental Cell</i> , <b>2005</b> , 9, 197-207	10.2	179
25	Least of all visible things. <i>FEBS Letters</i> , <b>2005</b> , 579, 3202-3202	3.8	
24	Glimpsing over the event horizon: evolution of nuclear pores and envelope. <i>Cell Cycle</i> , <b>2005</b> , 4, 297-9	4.7	6
23	Autolytic activation and localization in Schneider cells (S2) of calpain B from Drosophila. <i>Biochemical Journal</i> , <b>2004</b> , 378, 299-305	3.8	17
22	Small GTPases and the evolution of the eukaryotic cell. <i>BioEssays</i> , <b>2003</b> , 25, 1129-38	4.1	111
21	Hrs mediates downregulation of multiple signalling receptors in Drosophila. <i>EMBO Reports</i> , <b>2003</b> , 4, 1168-8	3.8	128
20	The human genome sequence. A triumph of chemistry: If the history of molecular biology is written in the future, the first chapter should be devoted to the chemists who did the ground work. <i>EMBO Reports</i> , <b>2002</b> , 3, 594-5	6.5	
19	A novel human small subunit of calpains. <i>Biochemical Journal</i> , <b>2002</b> , 362, 383-8	3.8	25
18	A novel human small subunit of calpains. <i>Biochemical Journal</i> , <b>2002</b> , 362, 383-388	3.8	35
17	Cloning and expression of sprint, a Drosophila homologue of RIN1. <i>Mechanisms of Development</i> , <b>2001</b> , 101, 259-62	1.7	15
16	Guidance of cell migration by the Drosophila PDGF/VEGF receptor. <i>Cell</i> , <b>2001</b> , 107, 17-26	56.2	355
15	Drosophila calpains. Purification of a calpain-like enzyme from fruit flies, and expression in Escherichia coli. <i>Methods in Molecular Biology</i> , <b>2000</b> , 144, 67-74	1.4	1
14	Characterization of two recombinant Drosophila calpains. CALPA and a novel homolog, CALPB. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 23893-900	5.4	30
13	The evolution of the calpain family as reflected in paralogous chromosome regions. <i>Journal of Molecular Evolution</i> , <b>1999</b> , 49, 272-81	3.1	36

12	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> , <b>1998</b> , 28, 91-8	4-5	34
11	The chemical brain hypothesis for the origin of nervous systems		2
10	Synaptic and peptidergic connectome of a neurosecretory centre in the annelid brain		3
9	An ancient FMRFamide-related peptide-receptor pair induces defense behavior in a brachiopod larva		2
8	A gonad-expressed opsin mediates light-induced spawning in the jellyfish <i>Clytia</i>		1
7	Whole-animal connectome and cell-type complement of the three-segmented <i>Platynereis dumerilii</i> larva		5
6	Neural circuitry of a polycystin-mediated hydrodynamic startle response for predator avoidance		1
5	Patterning of a telencephalon-like region in the adult brain of amphioxus		7
4	High cell diversity and complex peptidergic signalling underlie placozoan behaviour		2
3	Whole-head recording of chemosensory activity in the marine annelid <i>Platynereis dumerilii</i>		2
2	Ciliomotor circuitry underlying whole-body coordination of ciliary activity in the <i>Platynereis</i> larva		1
1	Nemertean, brachiopod and phoronid neuropeptidomics reveals ancestral spiralian signalling systems		1