Fabian Rentzsch

List of Publications by Year
in descending order

31 papers	1,900 citations	361413 20 h-index	434195 31 g-index
39 all docs	39 docs citations	39 times ranked	1690 citing authors

#	Article	IF	Citations
1	Asymmetric expression of the BMP antagonists chordin and gremlin in the sea anemone Nematostella vectensis: Implications for the evolution of axial patterning. Developmental Biology, 2006, 296, 375-387.	2.0	160
2	FGF signalling controls formation of the apical sensory organ in the cnidarian<i>Nematostella vectensis</i>. Development (Cambridge), 2008, 135, 1761-1769.	2.5	159
3	Nervous systems of the sea anemone <i>Nematostella vectensis</i> are generated by ectoderm and endoderm and shaped by distinct mechanisms. Development (Cambridge), 2012, 139, 347-357.	2.5	152
4	The Bilaterian Head Patterning Gene six3/6 Controls Aboral Domain Development in a Cnidarian. PLoS Biology, 2013, 11, e1001488.	5.6	144
5	The rise of the starlet sea anemone <i>Nematostella vectensis</i> as a model system to investigate development and regeneration. Wiley Interdisciplinary Reviews: Developmental Biology, 2016, 5, 408-428.	5.9	121
6	Cnidarian microRNAs frequently regulate targets by cleavage. Genome Research, 2014, 24, 651-663.	5.5	104
7	Transgenic analysis of a <i>SoxB</i> gene reveals neural progenitor cells in the cnidarian <i>Nematostella vectensis</i>. Development (Cambridge), 2014, 141, 4681-4689.	2.5	103
8	Back to the Basics: Cnidarians Start to Fire. Trends in Neurosciences, 2017, 40, 92-105.	8.6	102
9	Evolutionary Proteomics Uncovers Ancient Associations of Cilia with Signaling Pathways. Developmental Cell, 2017, 43, 744-762.e11.	7.0	92
10	Regulation of<i>Nematostella</i>neural progenitors by SoxB, Notch and bHLH genes. Development (Cambridge), 2015, 142, 3332-3342.	2.5	70
11	The cellular and molecular basis of cnidarian neurogenesis. Wiley Interdisciplinary Reviews: Developmental Biology, 2017, 6, e257.	5.9	68
12	A novel protein domain in an ancestral splicing factor drove the evolution of neural microexons. Nature Ecology and Evolution, 2019, 3, 691-701.	7.8	63
13	Evolution of eumetazoan nervous systems: insights from cnidarians. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20150065.	4.0	61
14	Development of the aboral domain in <i>Nematostella</i> requires <i>Î^{2}-catenin</i> and the opposing activities of <i>six3/6</i> and <i>frizzled5/8</i>. Development (Cambridge), 2016, 143, 1766-77.	2.5	59
15	A cnidarian homologue of an insect gustatory receptor functions in developmental body patterning. Nature Communications, 2015, 6, 6243.	12.8	57
16	Molecular characterization of the apical organ of the anthozoan Nematostella vectensis. Developmental Biology, 2015, 398, 120-133.	2.0	52
17	RGM Regulates BMP-Mediated Secondary Axis Formation in the Sea Anemone Nematostella vectensis. Cell Reports, 2014, 9, 1921-1930.	6.4	50
18	NvPOU4/Brain3 Functions as a Terminal Selector Gene in the Nervous System of the Cnidarian Nematostella vectensis. Cell Reports, 2020, 30, 4473-4489.e5.	6.4	44

#	Article	IF	Citations
19	The Xenopus doublesex-related gene Dmrt5 is required for olfactory placode neurogenesis. Developmental Biology, 2013, 373, 39-52.	2.0	37
20	Genomics and development of Nematostella vectensis and other anthozoans. Current Opinion in Genetics and Development, 2016, 39, 63-70.	3.3	29
21	Unipotent progenitors contribute to the generation of sensory cell types in the nervous system of the cnidarian Nematostella vectensis. Developmental Biology, 2017, 431, 59-68.	2.0	24
22	Modern genomic tools reveal the structural and cellular diversity of cnidarian nervous systems. Current Opinion in Neurobiology, 2019, 56, 87-96.	4.2	23
23	The genetic basis for PRC1 complex diversity emerged early in animal evolution. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22880-22889.	7.1	22
24	Neural nets. Current Biology, 2015, 25, R782-R786.	3.9	21
25	Molecular analysis of heparan sulfate biosynthetic enzyme machinery and characterization of heparan sulfate structure in <i>Nematostella vectensis</i>. Biochemical Journal, 2009, 419, 585-593.	3.7	19
26	<i>Insm1</i> -expressing neurons and secretory cells develop from a common pool of progenitors in the sea anemone <i>Nematostella vectensis</i>. Science Advances, 2022, 8, eabi7109.	10.3	15
27	Histone demethylase Lsd1 is required for the differentiation of neural cells in Nematostella vectensis. Nature Communications, 2022, 13, 465.	12.8	11
28	Glypican1/2/4/6 and sulfated glycosaminoglycans regulate the patterning of the primary body axis in the cnidarian Nematostella vectensis. Developmental Biology, 2016, 414, 108-120.	2.0	7
29	Making head or tail of cnidarian hox gene function. Nature Communications, 2018, 9, 2187.	12.8	7
30	Generating Transgenic Reporter Lines for Studying Nervous System Development in the Cnidarian Nematostella vectensis. Methods in Molecular Biology, 2020, 2047, 45-57.	0.9	4
31	TRPM2 causes sensitization to oxidative stress but attenuates high-temperature injury in the sea anemone <i>Nematostella vectensis</i>. Journal of Experimental Biology, 2022, 225, .	1.7	4