Sebastian Fraune

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5717510/publications.pdf

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47	4,504	159585	223800
papers	citations	30 h-index	46 g-index

59	59	59	4803
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Role of DNA Methylation in Genome Defense in Cnidaria and Other Invertebrates. Molecular Biology and Evolution, 2022, 39, .	8.9	10
2	Population Differences and Host Species Predict Variation in the Diversity of Host-Associated Microbes in Hydra. Frontiers in Microbiology, 2022, 13, 799333.	3.5	5
3	Microbiota mediated plasticity promotes thermal adaptation in the sea anemone Nematostella vectensis. Nature Communications, 2022, 13, .	12.8	23
4	Function and Evolution of Nuclear Receptors in Environmental-Dependent Postembryonic Development. Frontiers in Cell and Developmental Biology, 2021, 9, 653792.	3.7	13
5	Contribution of Maternal and Paternal Transmission to Bacterial Colonization in Nematostella vectensis. Frontiers in Microbiology, 2021, 12, 726795.	3.5	11
6	Bdellovibrio and Like Organisms Are Predictors of Microbiome Diversity in Distinct Host Groups. Microbial Ecology, 2020, 79, 252-257.	2.8	35
7	Bacteria- and temperature-regulated peptides modulate Î²-catenin signaling in Hydra. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21459-21468.	7.1	17
8	Hydra and Curvibacter. , 2020, , 79-89.		0
9	Temperature and insulin signaling regulate body size in Hydra by the Wnt and TGF-beta pathways. Nature Communications, 2019, 10, 3257.	12.8	27
10	Comparative analysis of amplicon and metagenomic sequencing methods reveals key features in the evolution of animal metaorganisms. Microbiome, 2019, 7, 133.	11.1	141
11	Neutrality in the Metaorganism. PLoS Biology, 2019, 17, e3000298.	5.6	61
12	Resolving structure and function of metaorganisms through a holistic framework combining reductionist and integrative approaches. Zoology, 2019, 133, 81-87.	1.2	53
13	Metaorganisms in extreme environments: do microbes play a role in organismal adaptation?. Zoology, 2018, 127, 1-19.	1.2	194
14	Carrying Capacity and Colonization Dynamics of Curvibacter in the Hydra Host Habitat. Frontiers in Microbiology, 2018, 9, 443.	3.5	39
15	Stem Cell Transcription Factor FoxO Controls Microbiome Resilience in Hydra. Frontiers in Microbiology, 2018, 9, 629.	3.5	24
16	Predicted Bacterial Interactions Affect in Vivo Microbial Colonization Dynamics in Nematostella. Frontiers in Microbiology, 2018, 9, 728.	3.5	36
17	Metabolic co-dependence drives the evolutionarily ancient Hydraâ€“Chlorella symbiosis. ELife, 2018, 7, .	6.0	47
18	A secreted antibacterial neuropeptide shapes the microbiome of Hydra. Nature Communications, 2017, 8, 698.	12.8	101

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19	Host modification of a bacterial quorum-sensing signal induces a phenotypic switch in bacterial symbionts. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8488-E8497.	7.1	69
20	Temperate phages as self-replicating weapons in bacterial competition. Journal of the Royal Society Interface, 2017, 14, 20170563.	3.4	39
21	Using Nematostella vectensis to Study the Interactions between Genome, Epigenome, and Bacteria in a Changing Environment. Frontiers in Marine Science, 2016, 3, .	2.5	21
22	Emerging Sponge Models of Animal-Microbe Symbioses. Frontiers in Microbiology, 2016, 7, 2102.	3.5	47
23	Response of bacterial colonization in <scp>N</scp>ematostella vectensis to development, environment and biogeography. Environmental Microbiology, 2016, 18, 1764-1781.	3.8	109
24	Which games are growing bacterial populations playing?. Journal of the Royal Society Interface, 2015, 12, 20150121.	3.4	51
25	Bacteriaâ€“bacteria interactions within the microbiota of the ancestral metazoan Hydra contribute to fungal resistance. ISME Journal, 2015, 9, 1543-1556.	9.8	196
26	Species-Specific Viromes in the Ancestral Holobiont Hydra. PLoS ONE, 2014, 9, e109952.	2.5	53
27	How do environmental factors influence life cycles and development? An experimental framework for earlyâ€diverging metazoans. BioEssays, 2014, 36, 1185-1194.	2.5	38
28	Bacterial colonization of Hydra hatchlings follows a robust temporal pattern. ISME Journal, 2013, 7, 781-790.	9.8	96
29	Distinct antimicrobial peptide expression determines host species-specific bacterial associations. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3730-8.	7.1	312
30	Hydra meiosis reveals unexpected conservation of structural synaptonemal complex proteins across metazoans. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16588-16593.	7.1	45
31	MyD88-deficient Hydra reveal an ancient function of TLR signaling in sensing bacterial colonizers. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19374-19379.	7.1	154
32	Where Simplicity Meets Complexity: Hydra, a Model for Hostâ€“Microbe Interactions. Advances in Experimental Medicine and Biology, 2012, 710, 71-81.	1.6	22
33	Embryo protection in contemporary immunology. Communicative and Integrative Biology, 2011, 4, 369-372.	1.4	19
34	Embryo protection in contemporary immunology: Why bacteria matter. Communicative and Integrative Biology, 2011, 4, 369-72.	1.4	7
35	Why bacteria matter in animal development and evolution. BioEssays, 2010, 32, 571-580.	2.5	257
36	The dynamic genome of Hydra. Nature, 2010, 464, 592-596.	27.8	743

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37	In an early branching metazoan, bacterial colonization of the embryo is controlled by maternal antimicrobial peptides. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18067-18072.	7.1	143
38	How Hydra senses and destroys microbes. Seminars in Immunology, 2010, 22, 54-58.	5.6	62
39	More than just orphans: are taxonomically-restricted genes important in evolution?. Trends in Genetics, 2009, 25, 404-413.	6.7	399
40	Disturbing epithelial homeostasis in the metazoan Hydra leads to drastic changes in associated microbiota. Environmental Microbiology, 2009, 11, 2361-2369.	3.8	64
41	Plasticity of epithelial cell shape in response to upstream signals: A whole-organism study using transgenic Hydra. Zoology, 2009, 112, 185-194.	1.2	26
42	Uncovering the evolutionary history of innate immunity: The simple metazoan Hydra uses epithelial cells for host defence. Developmental and Comparative Immunology, 2009, 33, 559-569.	2.3	195
43	Is activated hemocyanin instead of phenoloxidase involved in immune response in woodlice?. Developmental and Comparative Immunology, 2009, 33, 1055-1063.	2.3	39
44	Exploring Host-Microbe Interactions in Hydra. Microbe Magazine, 2009, 4, 457-462.	0.4	10
45	Hostâ€specificity of environmentally transmitted Mycoplasmaâ€like isopod symbionts. Environmental Microbiology, 2008, 10, 2497-2504.	3.8	103
46	Long-term maintenance of species-specific bacterial microbiota in the basal metazoan Hydra. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13146-13151.	7.1	320
47	Symbiotic Algae of Hydra viridissima Play a Key Role in Maintaining Homeostatic Bacterial Colonization. Frontiers in Microbiology, 0, 13, .	3.5	5