Yehu Moran

List of Publications by Year
in descending order

50 papers	2,322 citations	218677 26 h-index	243625 44 g-index
67 all docs	67 docs citations	67 times ranked	2390 citing authors

#	Article	IF	Citations
1	The evolutionary origin of plant and animal microRNAs. Nature Ecology and Evolution, 2017, 1, 27.	7.8	180
2	The Rise and Fall of an Evolutionary Innovation: Contrasting Strategies of Venom Evolution in Ancient and Young Animals. PLoS Genetics, 2015, 11, e1005596.	3.5	121
3	Evolution of voltage-gated ion channels at the emergence of Metazoa. Journal of Experimental Biology, 2015, 218, 515-525.	1.7	109
4	Cnidarian microRNAs frequently regulate targets by cleavage. Genome Research, 2014, 24, 651-663.	5.5	104
5	Analysis of Soluble Protein Contents from the Nematocysts of a Model Sea Anemone Sheds Light on Venom Evolution. Marine Biotechnology, 2013, 15, 329-339.	2.4	95
6	Sea anemone toxins affecting voltage-gated sodium channels â€“ molecular and evolutionary features. Toxicon, 2009, 54, 1089-1101.	1.6	94
7	Recurrent Horizontal Transfer of Bacterial Toxin Genes to Eukaryotes. Molecular Biology and Evolution, 2012, 29, 2223-2230.	8.9	91
8	Neurotoxin localization to ectodermal gland cells uncovers an alternative mechanism of venom delivery in sea anemones. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 1351-1358.	2.6	90
9	Dynamics of venom composition across a complex life cycle. ELife, 2018, 7, .	6.0	83
10	Evolution of an Ancient Venom: Recognition of a Novel Family of Cnidarian Toxins and the Common Evolutionary Origin of Sodium and Potassium Neurotoxins in Sea Anemone. Molecular Biology and Evolution, 2015, 32, 1598-1610.	8.9	82
11	Concerted Evolution of Sea Anemone Neurotoxin Genes Is Revealed through Analysis of the Nematostella vectensis Genome. Molecular Biology and Evolution, 2008, 25, 737-747.	8.9	78
12	Positions under Positive Selection--Key for Selectivity and Potency of Scorpion Â-Toxins. Molecular Biology and Evolution, 2010, 27, 1025-1034.	8.9	71
13	Convergent Evolution of Sodium Ion Selectivity in Metazoan Neuronal Signaling. Cell Reports, 2012, 2, 242-248.	6.4	67
14	Ecological venomics: How genomics, transcriptomics and proteomics can shed new light on the ecology and evolution of venom. Journal of Proteomics, 2016, 135, 62-72.	2.4	67
15	Cell type-specific expression profiling unravels the development and evolution of stinging cells in sea anemone. BMC Biology, 2018, 16, 108.	3.8	62
16	The Evolution of MicroRNA Pathway Protein Components in Cnidaria. Molecular Biology and Evolution, 2013, 30, 2541-2552.	8.9	57
17	Too Many False Targets for MicroRNAs: Challenges and Pitfalls in Prediction of miRNA Targets and Their Gene Ontology in Model and Nonâ€model Organisms. BioEssays, 2019, 41, e1800169.	2.5	56
18	Molecular analysis of the sea anemone toxin Av3 reveals selectivity to insects and demonstrates the heterogeneity of receptor site-3 on voltage-gated Na+ channels. Biochemical Journal, 2007, 406, 41-48.	3.7	51

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19	The Evolution of the Four Subunits of Voltage-Gated Calcium Channels: Ancient Roots, Increasing Complexity, and Multiple Losses. Genome Biology and Evolution, 2014, 6, 2210-2217.	2.5	50
20	Characterization of the piRNA pathway during development of the sea anemone Nematostella vectensis. RNA Biology, 2017, 14, 1727-1741.	3.1	49
21	The Birth and Death of Toxins with Distinct Functions: A Case Study in the Sea Anemone Nematostella. Molecular Biology and Evolution, 2019, 36, 2001-2012.	8.9	48
22	Sirtuin regulation in calorie restriction. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 1576-1583.	2.3	46
23	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
24	Intron Retention as a Posttranscriptional Regulatory Mechanism of Neurotoxin Expression at Early Life Stages of the Starlet Anemone Nematostella vectensis. Journal of Molecular Biology, 2008, 380, 437-443.	4.2	43
25	Expression and Mutagenesis of the Sea Anemone Toxin Av2 Reveals Key Amino Acid Residues Important for Activity on Voltage-Gated Sodium Channels. Biochemistry, 2006, 45, 8864-8873.	2.5	39
26	Drosomycin, an Innate Immunity Peptide of Drosophila melanogaster, Interacts with the Fly Voltage-gated Sodium Channel. Journal of Biological Chemistry, 2009, 284, 23558-23563.	3.4	36
27	Bcs<scp>T</scp>x3 is a founder of a novel sea anemone toxin family of potassium channel blocker. FEBS Journal, 2013, 280, 4839-4852.	4.7	35
28	HYPOTHESIS: When positive selection of neurotoxin genes is missing. FEBS Journal, 2006, 273, 3886-3892.	4.7	28
29	Conservation of miRNA-mediated silencing mechanisms across 600 million years of animal evolution. Nucleic Acids Research, 2017, 45, 938-950.	14.5	26
30	Insights into how development and life-history dynamics shape the evolution of venom. EvoDevo, 2021, 12, 1.	3.2	25
31	Toxin-like neuropeptides in the sea anemone <i>Nematostella</i> unravel recruitment from the nervous system to venom. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27481-27492.	7.1	24
32	The methyltransferase HEN1 is required in Nematostella vectensis for microRNA and piRNA stability as well as larval metamorphosis. PLoS Genetics, 2018, 14, e1007590.	3.5	21
33	The emerging field of venom-microbiomics for exploring venom as a microenvironment, and the corresponding Initiative for Venom Associated Microbes and Parasites (iVAMP). Toxicon: X, 2019, 4, 100016.	2.9	21
34	Fusion and Retrotransposition Events in the Evolution of the Sea Anemone Anemonia viridis Neurotoxin Genes. Journal of Molecular Evolution, 2009, 69, 115-124.	1.8	18
35	Some like it hot: population-specific adaptations in venom production to abiotic stressors in a widely distributed cnidarian. BMC Biology, 2020, 18, 121.	3.8	18
36	Functional Characterization of the Cnidarian Antiviral Immune Response Reveals Ancestral Complexity. Molecular Biology and Evolution, 2021, 38, 4546-4561.	8.9	18

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37	Unravelling the developmental and functional significance of an ancient Argonaute duplication. Nature Communications, 2020, 11, 6187.	12.8	17
38	Functional characterization of a â€˜plant-likeâ€™ HYL1 homolog in the cnidarian Nematostella vectensis indicates a conserved involvement in microRNA biogenesis. ELife, 2022, 11, .	6.0	14
39	AdE-1, a new inotropic Na+ channel toxin from <i>Aiptasia diaphana</i>, is similar to, yet distinct from, known anemone Na+ channel toxins. Biochemical Journal, 2013, 451, 81-90.	3.7	12
40	The specificity of Av3 sea anemone toxin for arthropods is determined at linker DI/SS2â€“S6Âin the pore module of target sodium channels. Biochemical Journal, 2014, 463, 271-277.	3.7	12
41	Evolution of miRNA Tailing by 3â€² Terminal Uridylyl Transferases in Metazoa. Genome Biology and Evolution, 2017, 9, 1547-1560.	2.5	11
42	Deadly Innovations: Unraveling the Molecular Evolution of Animal Venoms. , 2016, , 1-27.		10
43	TATA Binding Protein (TBP) Promoter Drives Ubiquitous Expression of Marker Transgene in the Adult Sea Anemone Nematostella vectensis. Genes, 2020, 11, 1081.	2.4	10
44	Conservation and turnover of miRNAs and their highly complementary targets in early branching animals. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20203169.	2.6	9
45	Dispersal and speciation: The cross Atlantic relationship of two parasitic cnidarians. Molecular Phylogenetics and Evolution, 2018, 126, 346-355.	2.7	6
46	The new COST Action European Venom Network (EUVEN)â€”synergy and future perspectives of modern venomics. GigaScience, 2021, 10, .	6.4	6
47	Initial Virome Characterization of the Common Cnidarian Lab Model Nematostella vectensis. Viruses, 2020, 12, 218.	3.3	6
48	Molecular Description of Scorpion Toxin Interaction with Voltage-Gated Sodium Channels. , 2013, , 1-19.		2
49	Transposons Increase Transcriptional Complexity: The Good Parasite?. Trends in Genetics, 2021, 37, 606-607.	6.7	2
50	Molecular Description of Scorpion Toxin Interaction with Voltage-Gated Sodium Channels. , 2015, , 471-491.		0