Mary J O'connell

List of Publications by Year
in descending order

37 papers	2,501 citations	471509 17 h-index	302126 39 g-index
40 all docs	40 docs citations	40 times ranked	4378 citing authors

#	Article	IF	Citations
1	Population Genomics Reveal Recent Speciation and Rapid Evolutionary Adaptation in Polar Bears. Cell, 2014, 157, 785-794.	28.9	363
2	Why prokaryotes have pangenomes. Nature Microbiology, 2017, 2, 17040.	13.3	327
3	Insights into the Evolution of Longevity from the Bowhead Whale Genome. Cell Reports, 2015, 10, 112-122.	6.4	280
4	The Interrelationships of Placental Mammals and the Limits of Phylogenetic Inference. Genome Biology and Evolution, 2016, 8, 330-344.	2.5	195
5	Evolution of sweet taste perception in hummingbirds by transformation of the ancestral umami receptor. Science, 2014, 345, 929-933.	12.6	169
6	The hybrid nature of the Eukaryota and a consilient view of life on Earth. Nature Reviews Microbiology, 2014, 12, 449-455.	28.6	124
7	Growing old, yet staying young: The role of telomeres in batsâ€™ exceptional longevity. Science Advances, 2018, 4, eaao0926.	10.3	120
8	Heterogeneous Models Place the Root of the Placental Mammal Phylogeny. Molecular Biology and Evolution, 2013, 30, 2145-2156.	8.9	115
9	Does a treeâ€“like phylogeny only exist at the tips in the prokaryotes?. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 2551-2558.	2.6	114
10	Strigolactone synthesis is ancestral in land plants, but canonical strigolactone signalling is a flowering plant innovation. BMC Biology, 2019, 17, 70.	3.8	92
11	Return to the Sea, Get Huge, Beat Cancer: An Analysis of Cetacean Genomes Including an Assembly for the Humpback Whale (Megaptera novaeangliae). Molecular Biology and Evolution, 2019, 36, 1746-1763.	8.9	75
12	The public goods hypothesis for the evolution of life on Earth. Biology Direct, 2011, 6, 41.	4.6	74
13	Inadvertent Paralog Inclusion Drives Artifactual Topologies and Timetree Estimates in Phylogenomics. Molecular Biology and Evolution, 2019, 36, 1344-1356.	8.9	56
14	Insights into Kinesin-1 Activation from the Crystal Structure of KLC2 Bound to JIP3. Structure, 2018, 26, 1486-1498.e6.	3.3	47
15	Adaptive Evolution as a Predictor of Species-Specific Innate Immune Response. Molecular Biology and Evolution, 2015, 32, 1717-1729.	8.9	39
16	The phylogeny of the mammalian heme peroxidases and the evolution of their diverse functions. BMC Evolutionary Biology, 2008, 8, 101.	3.2	31
17	Response to Teladorsagia circumcincta infection in Scottish Blackface lambs with divergent phenotypes for nematode resistance. Veterinary Parasitology, 2014, 206, 200-207.	1.8	28
18	Ribosome heterogeneity in Drosophila melanogaster gonads through paralog-switching. Nucleic Acids Research, 2022, 50, 2240-2257.	14.5	28

#	Article	IF	Citations
19	The ring of life hypothesis for eukaryote origins is supported by multiple kinds of data. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140323.	4.0	19
20	Transcriptional profiling of the ovine abomasal lymph node reveals a role for timing of the immune response in gastrointestinal nematode resistance. Veterinary Parasitology, 2016, 224, 96-108.	1.8	19
21	Surface layer proteins from virulent Clostridium difficile ribotypes exhibit signatures of positive selection with consequences for innate immune response. BMC Evolutionary Biology, 2017, 17, 90.	3.2	19
22	Paternally Expressed Imprinted Genes under Positive Darwinian Selection in Arabidopsis thaliana. Molecular Biology and Evolution, 2019, 36, 1239-1253.	8.9	18
23	New missense variants in RELT causing hypomineralised amelogenesis imperfecta. Clinical Genetics, 2020, 97, 688-695.	2.0	18
24	Cytoplasmic long noncoding RNAs are differentially regulated and translated during human neuronal differentiation. Rna, 2021, 27, 1082-1101.	3.5	17
25	Selection and the Cell Cycle: Positive Darwinian Selection in a Well-Known DNA Damage Response Pathway. Journal of Molecular Evolution, 2010, 71, 444-457.	1.8	16
26	The role of CAPG in molecular communication between the embryo and the uterine endometrium: Is its function conserved in species with different implantation strategies?. FASEB Journal, 2020, 34, 11015-11029.	0.5	15
27	Gamma Chain Receptor Interleukins: Evidence for Positive Selection Driving the Evolution of Cell-to-Cell Communicators in the Mammalian Immune System. Journal of Molecular Evolution, 2005, 61, 608-619.	1.8	14
28	Functional Consequence of Positive Selection Revealed through Rational Mutagenesis of Human Myeloperoxidase. Molecular Biology and Evolution, 2012, 29, 2039-2046.	8.9	14
29	Reply to â€˜The population genetics of pangenomesâ€™. Nature Microbiology, 2017, 2, 1575-1575.	13.3	11
30	Mind the gaps in cellular evolution. Nature, 2017, 541, 297-299.	27.8	8
31	Gene Fusions Derived by Transcriptional Readthrough are Driven by Segmental Duplication in Human. Genome Biology and Evolution, 2019, 11, 2678-2690.	2.5	7
32	Adaptive evolution of the human fatty acid synthase gene: Support for the cancer selection and fat utilization hypotheses?. Gene, 2005, 360, 151-159.	2.2	6
33	An active second dihydrofolate reductase enzyme is not a feature of rat and mouse, but they do have activity in their mitochondria. FEBS Letters, 2015, 589, 1855-1862.	2.8	5
34	In Arabidopsis thaliana codon volatility scores reflect GC3 composition rather than selective pressure. BMC Research Notes, 2012, 5, 359.	1.4	4
35	Spectrum of pathogenic variants and founder effects in amelogenesis imperfecta associated with MMP20. Human Mutation, 2021, 42, 567-576.	2.5	4
36	Adaptive Evolution in TRIF Leads to Discordance between Human and Mouse Innate Immune Signaling. Genome Biology and Evolution, 2021, 13, .	2.5	3

#	Article	IF	Citations
37	Ghost locus appears. Nature, 2014, 514, 570-571.	27.8	2