

Frédéric G Brunet

List of Publications by Year in descending order

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42
papers

4,586
citations

186265

28
h-index

289244

40
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all docs

42
docs citations

42
times ranked

6232
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome duplication in the teleost fish <i>Tetraodon nigroviridis</i> reveals the early vertebrate proto-karyotype. <i>Nature</i> , 2004, 431, 946-957.	27.8	1,801
2	Gene Loss and Evolutionary Rates Following Whole-Genome Duplication in Teleost Fishes. <i>Molecular Biology and Evolution</i> , 2006, 23, 1808-1816.	8.9	352
3	Evolutionary Genomics of Nuclear Receptors: From Twenty-Five Ancestral Genes to Derived Endocrine Systems. <i>Molecular Biology and Evolution</i> , 2004, 21, 1923-1937.	8.9	319
4	Transposable elements as drivers of genomic and biological diversity in vertebrates. <i>Chromosome Research</i> , 2008, 16, 203-215.	2.2	198
5	<i>Amphioxus</i> Postembryonic Development Reveals the Homology of Chordate Metamorphosis. <i>Current Biology</i> , 2008, 18, 825-830.	3.9	132
6	Origin of <i>sphinx</i> , a young chimeric RNA gene in <i>Drosophila melanogaster</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4448-4453.	7.1	127
7	Estrogen-related receptor β^3 is an <i>in vivo</i> receptor of bisphenol A. <i>FASEB Journal</i> , 2014, 28, 3124-3133.	0.5	115
8	Phylogenomics of Life-Or-Death Switches in Multicellular Animals: Bcl-2, BH3-Only, and BNip Families of Apoptotic Regulators. <i>Molecular Biology and Evolution</i> , 2005, 22, 2395-2416.	8.9	108
9	Evolving protein functional diversity in new genes of <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16246-16250.	7.1	105
10	Pigmentation Pathway Evolution after Whole-Genome Duplication in Fish. <i>Genome Biology and Evolution</i> , 2009, 1, 479-493.	2.5	104
11	Highly Variable Rates of Genome Rearrangements between Hemiascomycetous Yeast Lineages. <i>PLoS Genetics</i> , 2006, 2, e32.	3.5	94
12	Intron presence-absence polymorphism in <i>Drosophila</i> driven by positive Darwinian selection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 8121-8126.	7.1	91
13	Repetitive Element-Mediated Recombination as a Mechanism for New Gene Origination in <i>Drosophila</i> . <i>PLoS Genetics</i> , 2008, 4, e3.	3.5	80
14	Fasting Induces CART Down-Regulation in the Zebrafish Nervous System in a Cannabinoid Receptor 1-Dependent Manner. <i>Molecular Endocrinology</i> , 2012, 26, 1316-1326.	3.7	70
15	The N-terminal domains of TRF1 and TRF2 regulate their ability to condense telomeric DNA. <i>Nucleic Acids Research</i> , 2012, 40, 2566-2576.	14.5	64
16	Genome-wide expression analyses establish dendritic cells as a new osteoclast precursor able to generate bone-resorbing cells more efficiently than monocytes. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 661-672.	2.8	61
17	The amphioxus genome enlightens the evolution of the thyroid hormone signaling pathway. <i>Development Genes and Evolution</i> , 2008, 218, 667-680.	0.9	59
18	Structural shifts of aldehyde dehydrogenase enzymes were instrumental for the early evolution of retinoid-dependent axial patterning in metazoans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 226-231.	7.1	57

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19	Origin of New Genes: Evidence from Experimental and Computational Analyses. <i>Genetica</i> , 2003, 118, 171-182.	1.1	54
20	Horizontal transmission versus ancient origin: Mariner in the witness box. <i>Genetica</i> , 1994, 93, 161-170.	1.1	52
21	Expansion by whole genome duplication and evolution of the sox gene family in teleost fish. <i>PLoS ONE</i> , 2017, 12, e0180936.	2.5	51
22	Not so bad after all: retroviruses and long terminal repeat retrotransposons as a source of new genes in vertebrates. <i>Clinical Microbiology and Infection</i> , 2016, 22, 312-323.	6.0	50
23	Expression and phylogeny of candidate genes for sex differentiation in a primitive fish species, the Siberian sturgeon, <i>Acipenser baerii</i> . <i>Molecular Reproduction and Development</i> , 2012, 79, 504-516.	2.0	45
24	The rapid divergence of the ecdysone receptor is a synapomorphy for Mecoptera that clarifies the Strepsiptera problem. <i>Insect Molecular Biology</i> , 2006, 15, 351-362.	2.0	42
25	Nuclear hormone receptor signaling in amphioxus. <i>Development Genes and Evolution</i> , 2008, 218, 651-665.	0.9	42
26	Evolution of Retinoid and Steroid Signaling: Vertebrate Diversification from an Amphioxus Perspective. <i>Genome Biology and Evolution</i> , 2011, 3, 985-1005.	2.5	42
27	Teleost Fish-Specific Preferential Retention of Pigmentation Gene-Containing Families After Whole Genome Duplications in Vertebrates. <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 1795-1806.	1.8	40
28	Whole Genome Duplications Shaped the Receptor Tyrosine Kinase Repertoire of Jawed Vertebrates. <i>Genome Biology and Evolution</i> , 2016, 8, 1600-1613.	2.5	38
29	The evolutionary conservation of the A Disintegrin-like and Metalloproteinase domain with Thrombospondin-1 motif metzincins across vertebrate species and their expression in teleost zebrafish. <i>BMC Evolutionary Biology</i> , 2015, 15, 22.	3.2	28
30	Inventing a Sex-Specific Gene: A Conserved Role of DMRT1 in Teleost Fishes Plus a Recent Duplication in the Medaka <i>Oryzias latipes</i> Resulted in DMY. <i>Journal of Molecular Evolution</i> , 2003, 57, S148-S153.	1.8	27
31	Do Deletions of Mos1-Like Elements Occur Randomly in the Drosophilidae Family?. <i>Journal of Molecular Evolution</i> , 2002, 54, 227-234.	1.8	26
32	Phylogenetic Analysis of Mos1-Like Transposable Elements in the Drosophilidae. <i>Journal of Molecular Evolution</i> , 1999, 49, 760-768.	1.8	25
33	Gene Amplification and Functional Diversification of Melanocortin 4 Receptor at an Extremely Polymorphic Locus Controlling Sexual Maturation in the Platyfish. <i>Genetics</i> , 2013, 195, 1337-1352.	2.9	22
34	BMP Signaling Modulates Hecpudin Expression in Zebrafish Embryos Independent of Hemojuvelin. <i>PLoS ONE</i> , 2011, 6, e14553.	2.5	20
35	A Mariner-Like Transposable Element in the Insect Parasite Nematode <i>Heterorhabditis bacteriophora</i> . <i>Journal of Molecular Evolution</i> , 1999, 48, 328-336.	1.8	16
36	Evidence for DNA Sequence Encoding of an Accessible Nucleosomal Array across Vertebrates. <i>Biophysical Journal</i> , 2018, 114, 2308-2316.	0.5	8

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37	OTX5 Regulates Pineal Expression of the Zebrafish REV-ERB± through a New DNA Binding Site. <i>Molecular Endocrinology</i> , 2008, 22, 23-32.	3.7	7
38	Molecular analysis of the sex chromosomes of the platyfish <i>Xiphophorus maculatus</i> : Towards the identification of a new type of master sexual regulator in vertebrates. <i>Integrative Zoology</i> , 2009, 4, 277-284.	2.6	5
39	Coupling between Sequence-Mediated Nucleosome Organization and Genome Evolution. <i>Genes</i> , 2021, 12, 851.	2.4	5
40	Case Studies of Seven Gene Families with Unusual High Retention Rate Since the Vertebrate and Teleost Whole-Genome Duplications. , 2017, , 369-396.		3
41	Origin of new genes: evidence from experimental and computational analyses. <i>Contemporary Issues in Genetics and Evolution</i> , 2003, , 171-182.	0.9	1
42	Highly variable rates of genome rearrangements between Hemiascomycetous yeast lineages. <i>PLoS Genetics</i> , 2005, preprint, e32.	3.5	0