

Federico G Hoffmann

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

4,975
citations

101384

36
h-index

106150

65
g-index

103
all docs

103
docs citations

103
times ranked

6171
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of the DAN gene family in vertebrates. <i>Developmental Biology</i> , 2022, 482, 34-43.	0.9	4
2	The PIWI/piRNA response is relaxed in a rodent that lacks mobilizing transposable elements. <i>Rna</i> , 2022, 28, 609-621.	1.6	3
3	Stage-specific transcriptomic analysis of the model cestode <i>Hymenolepis microstoma</i> . <i>Genomics</i> , 2021, 113, 620-632.	1.3	15
4	Evolved increases in hemoglobin-oxygen affinity and the Bohr effect coincided with the aquatic specialization of penguins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	8
5	Large-scale genome sampling reveals unique immunity and metabolic adaptations in bats. <i>Molecular Ecology</i> , 2021, 30, 6449-6467.	2.0	40
6	<i>Gaeumannomyces nanograminis</i> , sp. nov., a hyphopodiate fungus identified from diseased roots of ultradwarf bermudagrass in the United States. <i>Mycologia</i> , 2021, 113, 1-11.	0.8	2
7	Whole-Genome Duplications and the Diversification of the Globin-X Genes of Vertebrates. <i>Genome Biology and Evolution</i> , 2021, 13, .	1.1	5
8	Evolutionary history of the vertebrate Piwi gene family. <i>PeerJ</i> , 2021, 9, e12451.	0.9	7
9	Oxygenation properties of hemoglobin and the evolutionary origins of isoform multiplicity in an amphibious air-breathing fish, the blue-spotted mudskipper (<i>Boleophthalmus pectinirostris</i>). <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	7
10	<i>Magnaporthiopsis cynodontis</i> , a novel turfgrass pathogen with widespread distribution in the United States. <i>Mycologia</i> , 2020, 112, 52-63.	0.8	10
11	Wnt Genes in Wing Pattern Development of Coliadinae Butterflies. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	1.1	19
12	The Globin Gene Family in Arthropods: Evolution and Functional Diversity. <i>Frontiers in Genetics</i> , 2020, 11, 858.	1.1	8
13	Toward a more holistic method of genome assembly assessment. <i>BMC Bioinformatics</i> , 2020, 21, 249.	1.2	20
14	Structure and function of crocodylian hemoglobins and allosteric regulation by chloride, ATP, and CO ₂ . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020, 318, R657-R667.	0.9	12
15	Evolution of nodal and nodal-related genes and the putative composition of the heterodimers that trigger the nodal pathway in vertebrates. <i>Evolution & Development</i> , 2019, 21, 205-217.	1.1	11
16	Divergent and parallel routes of biochemical adaptation in high-altitude passerine birds from the Qinghai-Tibet Plateau. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1865-1870.	3.3	74
17	Gene Turnover and Diversification of the $\hat{1}$ - and $\hat{2}$ -Globin Gene Families in Sauropsid Vertebrates. <i>Genome Biology and Evolution</i> , 2018, 10, 344-358.	1.1	23
18	Molecular Adaptations for Sensing and Securing Prey and Insight into Amniote Genome Diversity from the Garter Snake Genome. <i>Genome Biology and Evolution</i> , 2018, 10, 2110-2129.	1.1	72

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19	Evolution of the β^2 -adrenoreceptors in vertebrates. <i>General and Comparative Endocrinology</i> , 2017, 240, 129-137.	0.8	14
20	Molecular adaptive convergence in the β -globin gene in subterranean octodontid rodents. <i>Gene</i> , 2017, 628, 275-280.	1.0	11
21	Progressive erosion of the Relxin1 gene in bovids. <i>General and Comparative Endocrinology</i> , 2017, 252, 12-17.	0.8	12
22	Molecular Evolution and Functional Divergence of Trace Amine-Associated Receptors. <i>PLoS ONE</i> , 2016, 11, e0151023.	1.1	31
23	Transposable Element Targeting by piRNAs in Laurasiatherians with Distinct Transposable Element Histories. <i>Genome Biology and Evolution</i> , 2016, 8, 1327-1337.	1.1	30
24	<i>Curvularia malina</i> sp. nov. incites a new disease of warm-season turfgrasses in the southeastern United States. <i>Mycologia</i> , 2016, 108, 915-924.	0.8	10
25	Evolutionary history of the repressin tumor suppressor gene family in vertebrates with a description of a new repressin gene lineage. <i>Gene</i> , 2016, 591, 245-254.	1.0	24
26	Predictable convergence in hemoglobin function has unpredictable molecular underpinnings. <i>Science</i> , 2016, 354, 336-339.	6.0	206
27	Contrasting patterns of evolutionary diversification in the olfactory repertoires of reptile and bird genomes. <i>Genome Biology and Evolution</i> , 2016, 8, evw013.	1.1	28
28	Gene Turnover in the Avian Globin Gene Families and Evolutionary Changes in Hemoglobin Isoform Expression. <i>Molecular Biology and Evolution</i> , 2015, 32, 871-887.	3.5	40
29	Integration of molecular cytogenetics, dated molecular phylogeny, and model-based predictions to understand the extreme chromosome reorganization in the Neotropical genus <i>Tonatia</i> (Chiroptera: Tj ETQq1 1 0.784314 rg20/Overl	1.1	20
30	Oxygenation properties and isoform diversity of snake hemoglobins. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 309, R1178-R1191.	0.9	29
31	Intraspecific Polymorphism, Interspecific Divergence, and the Origins of Function-Altering Mutations in Deer Mouse Hemoglobin. <i>Molecular Biology and Evolution</i> , 2015, 32, 978-997.	3.5	88
32	Multiple Lineages of Ancient CR1 Retroposons Shaped the Early Genome Evolution of Amniotes. <i>Genome Biology and Evolution</i> , 2015, 7, 205-217.	1.1	62
33	Epistasis Constrains Mutational Pathways of Hemoglobin Adaptation in High-Altitude Pikas. <i>Molecular Biology and Evolution</i> , 2015, 32, 287-298.	3.5	95
34	Ancient Duplications and Expression Divergence in the Globin Gene Superfamily of Vertebrates: Insights from the Elephant Shark Genome and Transcriptome. <i>Molecular Biology and Evolution</i> , 2015, 32, 1684-1694.	3.5	44
35	Transposable elements and small RNAs: Genomic fuel for species diversity. <i>Mobile Genetic Elements</i> , 2015, 5, 63-66.	1.8	7
36	Genetically based low oxygen affinities of felid hemoglobins: lack of biochemical adaptation to high-altitude hypoxia in the snow leopard. <i>Journal of Experimental Biology</i> , 2015, 218, 2402-2409.	0.8	40

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37	Early Evolution of Vertebrate Mybs: An Integrative Perspective Combining Synteny, Phylogenetic, and Gene Expression Analyses. <i>Genome Biology and Evolution</i> , 2015, 7, 3009-3021.	1.1	19
38	Bovine herpesvirus 1 productive infection and immediate early transcription unit 1 promoter are stimulated by the synthetic corticosteroid dexamethasone. <i>Virology</i> , 2015, 484, 377-385.	1.1	36
39	Evolution of the Relaxin/Insulin-Like Gene Family in Anthropoid Primates. <i>Genome Biology and Evolution</i> , 2014, 6, 491-499.	1.1	13
40	Repeated Evolution of Chimeric Fusion Genes in the β^2 -Globin Gene Family of Laurasiatherian Mammals. <i>Genome Biology and Evolution</i> , 2014, 6, 1219-1233.	1.1	44
41	Three crocodylian genomes reveal ancestral patterns of evolution among archosaurs. <i>Science</i> , 2014, 346, 1254449.	6.0	300
42	Comparative genomics reveals insights into avian genome evolution and adaptation. <i>Science</i> , 2014, 346, 1311-1320.	6.0	895
43	The Globin Gene Repertoire of Lampreys: Convergent Evolution of Hemoglobin and Myoglobin in Jawed and Jawless Vertebrates. <i>Molecular Biology and Evolution</i> , 2014, 31, 2708-2721.	3.5	39
44	Large Numbers of Novel miRNAs Originate from DNA Transposons and Are Coincident with a Large Species Radiation in Bats. <i>Molecular Biology and Evolution</i> , 2014, 31, 1536-1545.	3.5	60
45	Evolution of the ABPA Subunit of Androgen-Binding Protein Expressed in the Submaxillary Glands in New and Old World Rodent Taxa. <i>Journal of Molecular Evolution</i> , 2013, 76, 324-331.	0.8	7
46	Gene duplication, genome duplication, and the functional diversification of vertebrate globins. <i>Molecular Phylogenetics and Evolution</i> , 2013, 66, 469-478.	1.2	110
47	The Burmese python genome reveals the molecular basis for extreme adaptation in snakes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20645-20650.	3.3	260
48	Hemoglobin isoform differentiation and allosteric regulation of oxygen binding in the turtle, <i>Trachemys scripta</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R961-R967.	0.9	36
49	Whole-Genome Duplication and the Functional Diversification of Teleost Fish Hemoglobins. <i>Molecular Biology and Evolution</i> , 2013, 30, 140-153.	3.5	95
50	Androglobin: A Chimeric Globin in Metazoans That Is Preferentially Expressed in Mammalian Testes. <i>Molecular Biology and Evolution</i> , 2012, 29, 1105-1114.	3.5	98
51	Whole-Genome Duplications Spurred the Functional Diversification of the Globin Gene Superfamily in Vertebrates. <i>Molecular Biology and Evolution</i> , 2012, 29, 303-312.	3.5	88
52	Altitudinal Variation at Duplicated β^2 -Globin Genes in Deer Mice: Effects of Selection, Recombination, and Gene Conversion. <i>Genetics</i> , 2012, 190, 203-216.	1.2	37
53	Evolution of the Globin Gene Family in Deuterostomes: Lineage-Specific Patterns of Diversification and Attrition. <i>Molecular Biology and Evolution</i> , 2012, 29, 1735-1745.	3.5	54
54	Resolution of the laurasiatherian phylogeny: Evidence from genomic data. <i>Molecular Phylogenetics and Evolution</i> , 2012, 64, 685-689.	1.2	39

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55	INSL4 Pseudogenes Help Define the Relaxin Family Repertoire in the Common Ancestor of Placental Mammals. <i>Journal of Molecular Evolution</i> , 2012, 75, 73-78.	0.8	10
56	Gene turnover and differential retention in the relaxin/insulin-like gene family in primates. <i>Molecular Phylogenetics and Evolution</i> , 2012, 63, 768-776.	1.2	14
57	Gene Duplication and Positive Selection Explains Unusual Physiological Roles of the Relaxin Gene in the European Rabbit. <i>Journal of Molecular Evolution</i> , 2012, 74, 52-60.	0.8	7
58	Genetic and biological characterization of a densovirus isolate that affects dengue virus infection. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2011, 106, 285-292.	0.8	23
59	Differential Loss and Retention of Cytoglobin, Myoglobin, and Globin-E during the Radiation of Vertebrates. <i>Genome Biology and Evolution</i> , 2011, 3, 588-600.	1.1	64
60	Evolution of the Relaxin/Insulin-like Gene Family in Placental Mammals: Implications for Its Early Evolution. <i>Journal of Molecular Evolution</i> , 2011, 72, 72-79.	0.8	27
61	Conversion events in gene clusters. <i>BMC Evolutionary Biology</i> , 2011, 11, 226.	3.2	12
62	Comparative genomics of proteins involved in RNA nucleocytoplasmic export. <i>BMC Evolutionary Biology</i> , 2011, 11, 7.	3.2	34
63	Phylogenetic diversification of the globin gene superfamily in chordates. <i>IUBMB Life</i> , 2011, 63, 313-322.	1.5	47
64	Developmental regulation of hemoglobin synthesis in the green anole lizard <i>Anolis carolinensis</i> . <i>Journal of Experimental Biology</i> , 2011, 214, 575-581.	0.8	26
65	Gene cooption and convergent evolution of oxygen transport hemoglobins in jawed and jawless vertebrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14274-14279.	3.3	71
66	Lineage-Specific Patterns of Functional Diversification in the $\hat{\alpha}$ - and $\hat{\beta}$ -Globin Gene Families of Tetrapod Vertebrates. <i>Molecular Biology and Evolution</i> , 2010, 27, 1126-1138.	3.5	58
67	Restricted Genetic Diversity of HIV-1 Subtype C Envelope Glycoprotein from Perinatally Infected Zambian Infants. <i>PLoS ONE</i> , 2010, 5, e9294.	1.1	36
68	Evidence of circulation of Laguna Negra-like hantavirus in the Central West of Brazil: Case report. <i>Journal of Clinical Virology</i> , 2009, 45, 153-156.	1.6	23
69	Phylogenetic characterization of hantaviruses from wild rodents and hantavirus pulmonary syndrome cases in the state of Parana (southern Brazil). <i>Journal of General Virology</i> , 2009, 90, 2166-2171.	1.3	29
70	A comparative study of HIV-1 clade C env evolution in a Zambian infant with an infected rhesus macaque during disease progression. <i>Aids</i> , 2009, 23, 1817-1828.	1.0	8
71	Molecular dating of the diversification of Phyllostominae bats based on nuclear and mitochondrial DNA sequences. <i>Molecular Phylogenetics and Evolution</i> , 2008, 49, 653-658.	1.2	32
72	AN EVOLUTIONARY EXPRESSED SEQUENCE TAG ANALYSIS OF DROSOPHILA SPERMATHECA GENES. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 2936-2947.	1.1	67

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73	Genomic evidence for independent origins of β -like globin genes in monotremes and therian mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1590-1595.	3.3	57
74	New Genes Originated via Multiple Recombinational Pathways in the β -Globin Gene Family of Rodents. <i>Molecular Biology and Evolution</i> , 2008, 25, 2589-2600.	3.5	43
75	Rapid Rates of Lineage-Specific Gene Duplication and Deletion in the β -Globin Gene Family. <i>Molecular Biology and Evolution</i> , 2008, 25, 591-602.	3.5	78
76	Differential loss of embryonic globin genes during the radiation of placental mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12950-12955.	3.3	64
77	Adaptive Functional Divergence Among Triplicated β -Globin Genes in Rodents. <i>Genetics</i> , 2008, 178, 1623-1638.	1.2	29
78	Genetic variation in mother-child acute seroconverter pairs from Zambia. <i>Aids</i> , 2008, 22, 817-824.	1.0	12
79	Evidence for the co-circulation of dengue virus type 3 genotypes III and V in the Northern region of Brazil during the 2002-2004 epidemics. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2008, 103, 483-488.	0.8	24
80	The β -Globin Gene Originated via Duplication of an Embryonic β -Like Globin Gene in the Ancestor of Tetrapod Vertebrates. <i>Molecular Biology and Evolution</i> , 2007, 24, 1982-1990.	3.5	46
81	The Molecular Basis of High-Altitude Adaptation in Deer Mice. <i>PLoS Genetics</i> , 2007, 3, e45.	1.5	173
82	Complex Signatures of Selection and Gene Conversion in the Duplicated Globin Genes of House Mice. <i>Genetics</i> , 2007, 177, 481-500.	1.2	57
83	Jhe in <i>Gryllus assimilis</i> : Cloning, sequence-activity associations and phylogeny. <i>Insect Biochemistry and Molecular Biology</i> , 2007, 37, 1359-1365.	1.2	22
84	Molecular Phylogenetics of the Phyllostomid Bat Genus <i>micronycteris</i> with Descriptions of Two New Subgenera. <i>Journal of Mammalogy</i> , 2007, 88, 1205-1215.	0.6	27
85	Characterization of HIV-1 subtype C envelope glycoproteins from perinatally infected children with different courses of disease. <i>Retrovirology</i> , 2006, 3, 73.	0.9	44
86	Evolution of subtype C HIV-1 Env in a slowly progressing Zambian infant. <i>Retrovirology</i> , 2005, 2, 67.	0.9	25
87	mtDNA perspective of chromosomal diversification and hybridization in Peters's tent-making bat (<i>Myotis</i> sp.). <i>Journal of Molecular Evolution</i> , 2005, 61, 107-114.	1.0	14
88	Comparative phylogeography of short-tailed bats (<i>Carollia</i> : Phyllostomidae). <i>Molecular Ecology</i> , 2003, 12, 3403-3414.	2.0	89
89	SYSTEMATICS OF OXYMYCTERUS WITH DESCRIPTION OF A NEW SPECIES FROM URUGUAY. <i>Journal of Mammalogy</i> , 2002, 83, 408-420.	0.6	19
90	SYSTEMATICS OF BATS OF THE GENUS GLOSSOPHAGA (CHIROPTERA: PHYLLOSTOMIDAE) AND PHYLOGEOGRAPHY IN G. SORICINA BASED ON THE CYTOCHROME-bGENE. <i>Journal of Mammalogy</i> , 2001, 82, 1092-1101.	0.6	42