

# 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	Comparative genomics reveals insights into avian genome evolution and adaptation. <i>Science</i> , 2014, 346, 1311-1320.	6.0	895
2	Three crocodylian genomes reveal ancestral patterns of evolution among archosaurs. <i>Science</i> , 2014, 346, 1254-1259.	6.0	300
3	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
4	Predictable convergence in hemoglobin function has unpredictable molecular underpinnings. <i>Science</i> , 2016, 354, 336-339.	6.0	206
5	The Molecular Basis of High-Altitude Adaptation in Deer Mice. <i>PLoS Genetics</i> , 2007, 3, e45.	1.5	173
6	Gene duplication, genome duplication, and the functional diversification of vertebrate globins. <i>Molecular Phylogenetics and Evolution</i> , 2013, 66, 469-478.	1.2	110
7	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
8	Whole-Genome Duplication and the Functional Diversification of Teleost Fish Hemoglobins. <i>Molecular Biology and Evolution</i> , 2013, 30, 140-153.	3.5	95
9	Epistasis Constrains Mutational Pathways of Hemoglobin Adaptation in High-Altitude Pikas. <i>Molecular Biology and Evolution</i> , 2015, 32, 287-298.	3.5	95
10	Comparative phylogeography of short-tailed bats ( <i>Carollia</i> : Phyllostomidae). <i>Molecular Ecology</i> , 2003, 12, 3403-3414.	2.0	89
11	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
12	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
13	Rapid Rates of Lineage-Specific Gene Duplication and Deletion in the $\beta$ -Globin Gene Family. <i>Molecular Biology and Evolution</i> , 2008, 25, 591-602.	3.5	78
14	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
15	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
16	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
17	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
18	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

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19	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
20	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
21	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
22	Lineage-Specific Patterns of Functional Diversification in the $\beta$ - and $\gamma$ -Globin Gene Families of Tetrapod Vertebrates. <i>Molecular Biology and Evolution</i> , 2010, 27, 1126-1138.	3.5	58
23	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
24	Genomic evidence for independent origins of $\beta$ -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
25	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
26	mtDNA perspective of chromosomal diversification and hybridization in <i>Pteropus tentaculatus</i> (Chiroptera: Pteropus). <i>Journal of Molecular Evolution</i> , 2010, 70, 100-107.	2.0	47
27	Phylogenetic diversification of the globin gene superfamily in chordates. <i>IUBMB Life</i> , 2011, 63, 313-322.	1.5	47
28	The $\beta$ -D-Globin Gene Originated via Duplication of an Embryonic $\beta$ -Like Globin Gene in the Ancestor of Tetrapod Vertebrates. <i>Molecular Biology and Evolution</i> , 2007, 24, 1982-1990.	3.5	46
29	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
30	Repeated Evolution of Chimeric Fusion Genes in the $\beta$ -Globin Gene Family of Laurasiatherian Mammals. <i>Genome Biology and Evolution</i> , 2014, 6, 1219-1233.	1.1	44
31	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
32	New Genes Originated via Multiple Recombinational Pathways in the $\beta$ -Globin Gene Family of Rodents. <i>Molecular Biology and Evolution</i> , 2008, 25, 2589-2600.	3.5	43
33	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
34	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
35	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
36	Large-scale genome sampling reveals unique immunity and metabolic adaptations in bats. <i>Molecular Ecology</i> , 2021, 30, 6449-6467.	2.0	40

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37	Resolution of the laurasiatherian phylogeny: Evidence from genomic data. <i>Molecular Phylogenetics and Evolution</i> , 2012, 64, 685-689.	1.2	39
38	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
39	Altitudinal Variation at Duplicated $\beta$ -Globin Genes in Deer Mice: Effects of Selection, Recombination, and Gene Conversion. <i>Genetics</i> , 2012, 190, 203-216.	1.2	37
40	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
41	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
42	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
43	Comparative genomics of proteins involved in RNA nucleocytoplasmic export. <i>BMC Evolutionary Biology</i> , 2011, 11, 7.	3.2	34
44	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
45	Molecular Evolution and Functional Divergence of Trace Amine-Associated Receptors. <i>PLoS ONE</i> , 2016, 11, e0151023.	1.1	31
46	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
47	Adaptive Functional Divergence Among Triplicated $\beta$ -Globin Genes in Rodents. <i>Genetics</i> , 2008, 178, 1623-1638.	1.2	29
48	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
49	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
50	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
51	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
52	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
53	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
54	Evolution of subtype C HIV-1 Env in a slowly progressing Zambian infant. <i>Retrovirology</i> , 2005, 2, 67.	0.9	25

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55	Evolutionary history of the reprimo tumor suppressor gene family in vertebrates with a description of a new reprimo gene lineage. <i>Gene</i> , 2016, 591, 245-254.	1.0	24
56	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
57	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
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	Gene Turnover and Diversification of the $\hat{1}\pm$ - and $\hat{1}^2$ -Globin Gene Families in Sauropsid Vertebrates. <i>Genome Biology and Evolution</i> , 2018, 10, 344-358.	1.1	23
60	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
61	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 rgB/Overl	1.1	21
62	Toward a more holistic method of genome assembly assessment. <i>BMC Bioinformatics</i> , 2020, 21, 249.	1.2	20
63	SYSTEMATICS OF OXYMYCTERUS WITH DESCRIPTION OF A NEW SPECIES FROM URUGUAY. <i>Journal of Mammalogy</i> , 2002, 83, 408-420.	0.6	19
64	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
65	Wnt Genes in Wing Pattern Development of Coliadinae Butterflies. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	1.1	19
66	Stage-specific transcriptomic analysis of the model cestode <i>Hymenolepis microstoma</i> . <i>Genomics</i> , 2021, 113, 620-632.	1.3	15
67	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
68	Evolution of the $\hat{1}^2$ -adrenoreceptors in vertebrates. <i>General and Comparative Endocrinology</i> , 2017, 240, 129-137.	0.8	14
69	Evolution of the Relaxin/Insulin-Like Gene Family in Anthropoid Primates. <i>Genome Biology and Evolution</i> , 2014, 6, 491-499.	1.1	13
70	Genetic variation in motherâ€œchild acute seroconverter pairs from Zambia. <i>Aids</i> , 2008, 22, 817-824.	1.0	12
71	Conversion events in gene clusters. <i>BMC Evolutionary Biology</i> , 2011, 11, 226.	3.2	12
72	Progressive erosion of the Relaxin1 gene in bovids. <i>General and Comparative Endocrinology</i> , 2017, 252, 12-17.	0.8	12

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73	Structure and function of crocodylian hemoglobins and allosteric regulation by chloride, ATP, and CO <sub>2</sub> . American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 318, R657-R667.	0.9	12
74	Molecular adaptive convergence in the $\beta$ -globin gene in subterranean octodontid rodents. Gene, 2017, 628, 275-280.	1.0	11
75	Evolution of nodal and nodal-related genes and the putative composition of the heterodimers that trigger the nodal pathway in vertebrates. Evolution & Development, 2019, 21, 205-217.	1.1	11
76	INSL4 Pseudogenes Help Define the Relaxin Family Repertoire in the Common Ancestor of Placental Mammals. Journal of Molecular Evolution, 2012, 75, 73-78.	0.8	10
77	<i>Curvularia malina</i> sp. nov. incites a new disease of warm-season turfgrasses in the southeastern United States. Mycologia, 2016, 108, 915-924.	0.8	10
78	<i>Magnaporthiopsis cynodontis</i> , a novel turfgrass pathogen with widespread distribution in the United States. Mycologia, 2020, 112, 52-63.	0.8	10
79	A comparative study of HIV-1 clade C env evolution in a Zambian infant with an infected rhesus macaque during disease progression. Aids, 2009, 23, 1817-1828.	1.0	8
80	The Globin Gene Family in Arthropods: Evolution and Functional Diversity. Frontiers in Genetics, 2020, 11, 858.	1.1	8
81	Evolved increases in hemoglobin-oxygen affinity and the Bohr effect coincided with the aquatic specialization of penguins. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	8
82	Gene Duplication and Positive Selection Explains Unusual Physiological Roles of the Relaxin Gene in the European Rabbit. Journal of Molecular Evolution, 2012, 74, 52-60.	0.8	7
83	Evolution of the ABPA Subunit of Androgen-Binding Protein Expressed in the Submaxillary Glands in New and Old World Rodent Taxa. Journal of Molecular Evolution, 2013, 76, 324-331.	0.8	7
84	Transposable elements and small RNAs: Genomic fuel for species diversity. Mobile Genetic Elements, 2015, 5, 63-66.	1.8	7
85	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> ). Journal of Experimental Biology, 2020, 223, .	0.8	7
86	Evolutionary history of the vertebrate Piwi gene family. PeerJ, 2021, 9, e12451.	0.9	7
87	Whole-Genome Duplications and the Diversification of the Globin-X Genes of Vertebrates. Genome Biology and Evolution, 2021, 13, .	1.1	5
88	Evolution of the DAN gene family in vertebrates. Developmental Biology, 2022, 482, 34-43.	0.9	4
89	The PIWI/piRNA response is relaxed in a rodent that lacks mobilizing transposable elements. Rna, 2022, 28, 609-621.	1.6	3
90	<i>Gaeumannomyces nanograminis</i> , sp. nov., a hyphopodiate fungus identified from diseased roots of ultradwarf bermudagrass in the United States. Mycologia, 2021, 113, 1-11.	0.8	2