

Gunter P Wagner

List of Publications by Year in descending order

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200
papers

17,917
citations

22132

59
h-index

17090

122
g-index

223
all docs

223
docs citations

223
times ranked

16182
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of mRNA abundance using RNA-seq data: RPKM measure is inconsistent among samples. <i>Theory in Biosciences</i> , 2012, 131, 281-285.	0.6	1,737
2	PERSPECTIVE: COMPLEX ADAPTATIONS AND THE EVOLUTION OF EVOLVABILITY. <i>Evolution; International Journal of Organic Evolution</i> , 1996, 50, 967-976.	1.1	1,025
3	The road to modularity. <i>Nature Reviews Genetics</i> , 2007, 8, 921-931.	7.7	853
4	Perspective: Complex Adaptations and the Evolution of Evolvability. <i>Evolution; International Journal of Organic Evolution</i> , 1996, 50, 967.	1.1	799
5	Homologues, Natural Kinds and the Evolution of Modularity. <i>American Zoologist</i> , 1996, 36, 36-43.	0.7	661
6	The pleiotropic structure of the genotypeâ€“phenotype map: the evolvability of complex organisms. <i>Nature Reviews Genetics</i> , 2011, 12, 204-213.	7.7	577
7	The origin and evolution of cell types. <i>Nature Reviews Genetics</i> , 2016, 17, 744-757.	7.7	572
8	A POPULATION GENETIC THEORY OF CANALIZATION. <i>Evolution; International Journal of Organic Evolution</i> , 1997, 51, 329-347.	1.1	444
9	Transposon-mediated rewiring of gene regulatory networks contributed to the evolution of pregnancy in mammals. <i>Nature Genetics</i> , 2011, 43, 1154-1159.	9.4	400
10	The developmental genetics of homology. <i>Nature Reviews Genetics</i> , 2007, 8, 473-479.	7.7	339
11	Canalization in evolutionary genetics: a stabilizing theory?. <i>BioEssays</i> , 2000, 22, 372-380.	1.2	311
12	The Topology of the Possible: Formal Spaces Underlying Patterns of Evolutionary Change. <i>Journal of Theoretical Biology</i> , 2001, 213, 241-274.	0.8	265
13	Measurement and Meaning in Biology. <i>Quarterly Review of Biology</i> , 2011, 86, 3-34.	0.0	264
14	Single-cell transcriptomics of the human placenta: inferring the cell communication network of the maternal-fetal interface. <i>Genome Research</i> , 2017, 27, 349-361.	2.4	260
15	Ancient Transposable Elements Transformed the Uterine Regulatory Landscape and Transcriptome during the Evolution of Mammalian Pregnancy. <i>Cell Reports</i> , 2015, 10, 551-561.	2.9	249
16	A Population Genetic Theory of Canalization. <i>Evolution; International Journal of Organic Evolution</i> , 1997, 51, 329.	1.1	233
17	The Population Genetic Theory of Hidden Variation and Genetic Robustness. <i>Genetics</i> , 2004, 168, 2271-2284.	1.2	227
18	What Is the Role of Genome Duplication in the Evolution of Complexity and Diversity?. <i>Molecular Biology and Evolution</i> , 2006, 23, 887-892.	3.5	223

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19	Evolutionary novelties. <i>Current Biology</i> , 2010, 20, R48-R52.	1.8	218
20	Development and the evolvability of human limbs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3400-3405.	3.3	217
21	Modeling Genetic Architecture: A Multilinear Theory of Gene Interaction. <i>Theoretical Population Biology</i> , 2001, 59, 61-86.	0.5	203
22	Pleiotropic scaling of gene effects and the "cost of complexity". <i>Nature</i> , 2008, 452, 470-472.	13.7	201
23	Measuring Morphological Integration Using Eigenvalue Variance. <i>Evolutionary Biology</i> , 2009, 36, 157-170.	0.5	184
24	RESURRECTING THE ROLE OF TRANSCRIPTION FACTOR CHANGE IN DEVELOPMENTAL EVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 2131-2154.	1.1	179
25	The "Fish-Specific" Hox Cluster Duplication Is Coincident with the Origin of Teleosts. <i>Molecular Biology and Evolution</i> , 2006, 23, 121-136.	3.5	170
26	The gene regulatory logic of transcription factor evolution. <i>Trends in Ecology and Evolution</i> , 2008, 23, 377-385.	4.2	169
27	Embryo implantation evolved from an ancestral inflammatory attachment reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6566-E6575.	3.3	165
28	A model based criterion for gene expression calls using RNA-seq data. <i>Theory in Biosciences</i> , 2013, 132, 159-164.	0.6	160
29	Menstruation: science and society. <i>American Journal of Obstetrics and Gynecology</i> , 2020, 223, 624-664.	0.7	149
30	Developmental Evolution as a Mechanistic Science: The Inference from Developmental Mechanisms to Evolutionary Processes1. <i>American Zoologist</i> , 2000, 40, 819-831.	0.7	142
31	A model of developmental evolution: selection, pleiotropy and compensation. <i>Trends in Ecology and Evolution</i> , 2012, 27, 316-322.	4.2	140
32	The evolution of menstruation: A new model for genetic assimilation. <i>BioEssays</i> , 2012, 34, 26-35.	1.2	135
33	Evolution of functional specialization and division of labor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E326-35.	3.3	130
34	Is the Genotype-Phenotype Map Modular?: A Statistical Approach Using Mouse Quantitative Trait Loci Data. <i>Genetics</i> , 2000, 156, 305-311.	1.2	130
35	EVIDENCE FOR THE REVERSIBILITY OF DIGIT LOSS: A PHYLOGENETIC STUDY OF LIMB EVOLUTION IN BACHIA (GYMNOPHTHALMIDAE: SQUAMATA). <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1896-1912.	1.1	119
36	What is the promise of developmental evolution? part I: Why is developmental biology necessary to explain evolutionary innovations?. <i>The Journal of Experimental Zoology</i> , 2000, 288, 95-98.	1.4	117

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37	Epistasis in Polygenic Traits and the Evolution of Genetic Architecture under Stabilizing Selection. <i>American Naturalist</i> , 2003, 161, 708-734.	1.0	116
38	THE EVOLUTION OF PHENOTYPIC CORRELATIONS AND "DEVELOPMENTAL MEMORY" Evolution; <i>International Journal of Organic Evolution</i> , 2014, 68, 1124-1138.	1.1	103
39	Convergent Evolution of Endometrial Prolactin Expression in Primates, Mice, and Elephants Through the Independent Recruitment of Transposable Elements. <i>Molecular Biology and Evolution</i> , 2012, 29, 239-247.	3.5	100
40	Evolution of adaptive phenotypic variation patterns by direct selection for evolvability. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 1903-1912.	1.2	97
41	Regulatory evolution through divergence of a phosphoswitch in the transcription factor CEBPB. <i>Nature</i> , 2011, 480, 383-386.	13.7	96
42	Molecular evolution of the HoxA cluster in the three major gnathostome lineages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 5492-5497.	3.3	94
43	Adaptive changes in the transcription factor HoxA-11 are essential for the evolution of pregnancy in mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 14928-14933.	3.3	90
44	Bichir HoxA Cluster Sequence Reveals Surprising Trends in Ray-Finned Fish Genomic Evolution. <i>Genome Research</i> , 2003, 14, 11-17.	2.4	89
45	DID EGG-LAYING BOAS BREAK DOLLO'S LAW? PHYLOGENETIC EVIDENCE FOR REVERSAL TO OVIPARITY IN SAND BOAS (<i>ERYX</i> : BOIDAE). <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 207-216.	1.1	85
46	Evidence for independent Hox gene duplications in the hagfish lineage: a PCR-based gene inventory of <i>Eptatretus stoutii</i> . <i>Molecular Phylogenetics and Evolution</i> , 2004, 32, 686-694.	1.2	82
47	HoxA-11 and FOXO1A Cooperate to Regulate Decidual Prolactin Expression: Towards Inferring the Core Transcriptional Regulators of Decidual Genes. <i>PLoS ONE</i> , 2009, 4, e6845.	1.1	82
48	The tetrapod limb: A hypothesis on its origin. <i>The Journal of Experimental Zoology</i> , 2001, 291, 226-240.	1.4	81
49	The mammalian decidual cell evolved from a cellular stress response. <i>PLoS Biology</i> , 2018, 16, e2005594.	2.6	79
50	Rupert riedl and the re-synthesis of evolutionary and developmental biology: Body plans and evolvability. <i>The Journal of Experimental Zoology</i> , 2004, 302B, 92-102.	1.4	77
51	Cell-type Phylogenetics and the Origin of Endometrial Stromal Cells. <i>Cell Reports</i> , 2015, 10, 1398-1409.	2.9	75
52	EVOLUTION OF GENETIC ARCHITECTURE UNDER DIRECTIONAL SELECTION. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1523-1536.	1.1	71
53	What is the promise of developmental evolution? Part II: A causal explanation of evolutionary innovations may be impossible. <i>The Journal of Experimental Zoology</i> , 2001, 291, 305-309.	1.4	70
54	Transformation of a transposon into a derived prolactin promoter with function during human pregnancy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11246-11251.	3.3	70

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55	Pervasive Correlated Evolution in Gene Expression Shapes Cell and Tissue Type Transcriptomes. <i>Genome Biology and Evolution</i> , 2018, 10, 538-552.	1.1	70
56	Pentadactyl ground state of the avian wing. <i>The Journal of Experimental Zoology</i> , 2002, 294, 146-151.	1.4	68
57	Transcriptomic analysis of avian digits reveals conserved and derived digit identities in birds. <i>Nature</i> , 2011, 477, 583-586.	13.7	67
58	Quasi-Independence, Homology and the Unity of Type: A Topological Theory of Characters. <i>Journal of Theoretical Biology</i> , 2003, 220, 505-527.	0.8	66
59	Character trees from transcriptome data: Origin and individuation of morphological characters and the so-called "species signal". <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2015, 324, 588-604.	0.6	66
60	Ten years of genetics and genomics: what have we achieved and where are we heading?. <i>Nature Reviews Genetics</i> , 2010, 11, 723-733.	7.7	65
61	What is "homology thinking" and what is it for?. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2016, 326, 3-8.	0.6	64
62	How Molecular is Molecular Developmental Biology? A Reply to Alex Rosenberg's Reductionism Redux: Computing the Embryo. <i>Biology and Philosophy</i> , 2001, 16, 53-68.	0.7	63
63	Evolution of mammalian pregnancy and the origin of the decidual stromal cell. <i>International Journal of Developmental Biology</i> , 2014, 58, 117-126.	0.3	62
64	The core transcriptome of mammalian placentas and the divergence of expression with placental shape. <i>Placenta</i> , 2017, 57, 71-78.	0.7	62
65	Expression of Hoxa-11 and Hoxa-13 in the pectoral fin of a basal ray-finned fish, <i>Polyodon spathula</i> : implications for the origin of tetrapod limbs. <i>Evolution & Development</i> , 2005, 7, 186-195.	1.1	61
66	Genetic measurement theory of epistatic effects. <i>Genetica</i> , 1998, 102/103, 569-580.	0.5	58
67	An Independent Genome Duplication Inferred from Hox Paralogs in the American Paddlefish "A Representative Basal Ray-Finned Fish and Important Comparative Reference. <i>Genome Biology and Evolution</i> , 2012, 4, 937-953.	1.1	58
68	THE MEASUREMENT THEORY OF FITNESS. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 1358-76.	1.1	56
69	The placenta as a model for understanding the origin and evolution of vertebrate organs. <i>Nature Ecology and Evolution</i> , 2017, 1, 72.	3.4	56
70	Evolutionary innovations overcome ancestral constraints: a re-examination of character evolution in male sepsid flies (Diptera: Sepsidae). <i>Evolution & Development</i> , 2002, 4, 1-6.	1.1	55
71	Evidence for Four Hox Clusters in the Killifish <i>Fundulus heteroclitus</i> (Teleostei). <i>Molecular Phylogenetics and Evolution</i> , 1996, 5, 309-322.	1.2	54
72	Evolution of placental invasion and cancer metastasis are causally linked. <i>Nature Ecology and Evolution</i> , 2019, 3, 1743-1753.	3.4	53

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73	QUANTITATIVE VARIATION IN FINITE PARTHENOGENETIC POPULATIONS: WHAT STOPS MULLER'S RATCHET IN THE ABSENCE OF RECOMBINATION?. <i>Evolution; International Journal of Organic Evolution</i> , 1990, 44, 715-731.	1.1	51
74	The Evolutionary Origin of Female Orgasm. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2016, 326, 326-337.	0.6	51
75	Stress-Induced Evolutionary Innovation: A Mechanism for the Origin of Cell Types. <i>BioEssays</i> , 2019, 41, e1800188.	1.2	51
76	The biological role of homologues: A building block hypothesis. <i>Neues Jahrbuch Fur Geologie Und Palaontologie - Abhandlungen</i> , 1995, 195, 279-288.	0.2	51
77	Heterochronic differences of Hoxa-11 expression in Xenopus fore- and hind limb development: Evidence for lower limb identity of the anuran ankle bones. <i>Development Genes and Evolution</i> , 1998, 208, 175-187.	0.4	50
78	Malignant cancer and invasive placentation: A case for positive pleiotropy between endometrial and malignancy phenotypes. <i>Evolution, Medicine and Public Health</i> , 2014, 2014, 136-145.	1.1	49
79	The statistical geometry of transcriptome divergence in cell-type evolution and cancer. <i>Nature Communications</i> , 2015, 6, 6066.	5.8	49
80	Is Hsp90 a regulator of evolvability?. , 1999, 285, 116-118.		47
81	What was the ancestral function of decidual stromal cells? A model for the evolution of eutherian pregnancy. <i>Placenta</i> , 2016, 40, 40-51.	0.7	47
82	Epistasis and the Mutation Load: A Measurement-Theoretical Approach. <i>Genetics</i> , 2001, 158, 477-485.	1.2	47
83	The Evolution of HoxD-11 Expression in the Bird Wing: Insights from Alligator mississippiensis. <i>PLoS ONE</i> , 2008, 3, e3325.	1.1	46
84	Surveying phylogenetic footprints in large gene clusters: applications to Hox cluster duplications. <i>Molecular Phylogenetics and Evolution</i> , 2004, 31, 581-604.	1.2	45
85	Of chicken wings and frog legs: A smorgasbord of evolutionary variation in mechanisms of tetrapod limb development. <i>Developmental Biology</i> , 2005, 288, 21-39.	0.9	45
86	Decidualization of Human Endometrial Stromal Fibroblasts is a Multiphasic Process Involving Distinct Transcriptional Programs. <i>Reproductive Sciences</i> , 2019, 26, 323-336.	1.1	45
87	The Transcriptomic Evolution of Mammalian Pregnancy: Gene Expression Innovations in Endometrial Stromal Fibroblasts. <i>Genome Biology and Evolution</i> , 2016, 8, 2459-2473.	1.1	43
88	Characters, Units and Natural Kinds: An Introduction. , 2001, , 1-10.		43
89	Evolution of a derived protein-protein interaction between HoxA11 and Foxo1a in mammals caused by changes in intramolecular regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E414-20.	3.3	42
90	Evolution of Chordate Hox Gene Clusters. <i>Annals of the New York Academy of Sciences</i> , 1999, 870, 238-248.	1.8	40

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91	Evolution of digit identity in the three-toed Italian skink <i>Chalcides chalcides</i> : a new case of digit identity frame shift. <i>Evolution & Development</i> , 2009, 11, 647-658.	1.1	38
92	Finding the frame shift: digit loss, developmental variability, and the origin of the avian hand. <i>Evolution & Development</i> , 2011, 13, 269-279.	1.1	38
93	Evolutionary innovations and novelties: Let us get down to business!. <i>Zoologischer Anzeiger</i> , 2015, 256, 75-81.	0.4	38
94	Character identity mechanisms: a conceptual model for comparative-mechanistic biology. <i>Biology and Philosophy</i> , 2020, 35, 1.	0.7	37
95	Molecular Evolution of Duplicated Ray Finned Fish HoxA Clusters: Increased Synonymous Substitution Rate and Asymmetrical Co-divergence of Coding and Non-coding Sequences. <i>Journal of Molecular Evolution</i> , 2005, 60, 665-676.	0.8	36
96	The developmental evolution of avian digit homology: An update. <i>Theory in Biosciences</i> , 2005, 124, 165-183.	0.6	36
97	Frame-shifts of digit identity in bird evolution and Cyclopamine-treated wings. <i>Evolution & Development</i> , 2009, 11, 163-169.	1.1	36
98	Quantitative Variation in Finite Parthenogenetic Populations: What Stops Muller's Ratchet in the Absence of Recombination?. <i>Evolution; International Journal of Organic Evolution</i> , 1990, 44, 715.	1.1	35
99	Character identification in evolutionary biology: The role of the organism. <i>Theory in Biosciences</i> , 2000, 119, 20-40.	0.6	35
100	Recombination induced hypergraphs: A new approach to mutation-recombination isomorphism. <i>Complexity</i> , 1996, 2, 37-43.	0.9	34
101	Population Dependent Fourier Decomposition of Fitness Landscapes over Recombination Spaces: Evolvability of Complex Characters. <i>Bulletin of Mathematical Biology</i> , 2000, 62, 399-428.	0.9	34
102	Protein Structural Modularity and Robustness Are Associated with Evolvability. <i>Genome Biology and Evolution</i> , 2011, 3, 456-475.	1.1	34
103	Adaptive evolution of Hox-gene homeodomains after cluster duplications. <i>BMC Evolutionary Biology</i> , 2006, 6, 86.	3.2	32
104	Enhanced drug delivery to the reproductive tract using nanomedicine reveals therapeutic options for prevention of preterm birth. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	32
105	Adaptive evolution of HoxA ¹¹ and HoxA ¹³ at the origin of the uterus in mammals. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 2201-2207.	1.2	31
106	Nuclear β -catenin localization supports homology of feathers, avian scutate scales, and alligator scales in early development. <i>Evolution & Development</i> , 2015, 17, 185-194.	1.1	31
107	Immunohistological Study of the Endometrial Stromal Fibroblasts in the Opossum, <i>Monodelphis domestica</i> : Evidence for Homology with Eutherian Stromal Fibroblasts1. <i>Biology of Reproduction</i> , 2014, 90, 111.	1.2	30
108	Evolution of Hoxa-11 Expression in Amphibians: Is the Urodele Autopodium an Innovation?. <i>American Zoologist</i> , 1999, 39, 686-694.	0.7	29

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109	Cis-Regulatory Evolution of Forkhead Box O1 (FOXO1), a Terminal Selector Gene for Decidual Stromal Cell Identity. <i>Molecular Biology and Evolution</i> , 2016, 33, 3161-3169.	3.5	29
110	HYPERMUTABILITY OF <i>HOXA13A</i> AND FUNCTIONAL DIVERGENCE FROM ITS PARALOG ARE ASSOCIATED WITH THE ORIGIN OF A NOVEL DEVELOPMENTAL FEATURE IN ZEBRAFISH AND RELATED TAXA (CYPRINIFORMES). <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 1574-1592.	1.1	28
111	Evidence for the reversibility of digit loss: a phylogenetic study of limb evolution in <i>Bachia</i> (Gymnophthalmidae: Squamata). <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1896-912.	1.1	28
112	PCR-survey of hox-genes of the zebrafish: New sequence information and evolutionary implications. , 1996, 274, 193-206.		26
113	Modeling the Evolution of Genetic Architecture: A Continuum of Alleles Model with Pairwise A↔A Epistasis. <i>Journal of Theoretical Biology</i> , 2000, 203, 163-175.	0.8	26
114	What does it take to evolve behaviorally complex organisms?. <i>BioSystems</i> , 2003, 69, 245-262.	0.9	26
115	Evolution of <i>Hoxa-11</i> in Lineages Phylogenetically Positioned along the Fin→Limb Transition. <i>Molecular Phylogenetics and Evolution</i> , 2000, 17, 305-316.	1.2	25
116	What is the promise of developmental evolution? III. The crucible of developmental evolution. <i>The Journal of Experimental Zoology</i> , 2003, 300B, 1-4.	1.4	25
117	Identity of the avian wing digits: Problems resolved and unsolved. <i>Developmental Dynamics</i> , 2011, 240, 1042-1053.	0.8	25
118	A Derived Allosteric Switch Underlies the Evolution of Conditional Cooperativity between <i>HOXA11</i> and <i>FOXO1</i> . <i>Cell Reports</i> , 2016, 15, 2097-2108.	2.9	25
119	Divergence of Conserved Non-Coding Sequences: Rate Estimates and Relative Rate Tests. <i>Molecular Biology and Evolution</i> , 2004, 21, 2116-2121.	3.5	24
120	Why ontogenetic homology criteria can be misleading: lessons from digit identity transformations. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2011, 316B, 165-170.	0.6	24
121	Beyond Digital Naturalism. <i>Artificial Life</i> , 1993, 1, 211-227.	1.0	23
122	Molecular evolution of evolutionary novelties: the vagina and uterus of therian mammals. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2005, 304B, 580-592.	0.6	23
123	On the nature of thumbs. <i>Genome Biology</i> , 2008, 9, 213.	13.9	23
124	On the definition and measurement of pleiotropy. <i>Trends in Genetics</i> , 2013, 29, 383-384.	2.9	23
125	Evolution of Embryo Implantation Was Enabled by the Origin of Decidual Stromal Cells in Eutherian Mammals. <i>Molecular Biology and Evolution</i> , 2021, 38, 1060-1074.	3.5	23
126	Single-cell analysis of prostaglandin E2-induced human decidual cell in vitro differentiation: a minimal ancestral decidual signal. <i>Biology of Reproduction</i> , 2022, 106, 155-172.	1.2	23

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127	The Shark HoxN Cluster Is Homologous to the Human HoxD Cluster. <i>Journal of Molecular Evolution</i> , 2004, 58, 212-217.	0.8	22
128	Organism and Character Decomposition: Steps towards an Integrative Theory of Biology. <i>Philosophy of Science</i> , 2000, 67, S289-S300.	0.5	21
129	The origin of platelets enabled the evolution of eutherian placentation. <i>Biology Letters</i> , 2019, 15, 20190374.	1.0	21
130	Cooperative inflammation: The recruitment of inflammatory signaling in marsupial and eutherian pregnancy. <i>Journal of Reproductive Immunology</i> , 2020, 137, 102626.	0.8	20
131	The Coevolution of Placentation and Cancer. <i>Annual Review of Animal Biosciences</i> , 2022, 10, 259-279.	3.6	20
132	Developmental Evolution as a Mechanistic Science: The Inference from Developmental Mechanisms to Evolutionary Processes. <i>American Zoologist</i> , 2000, 40, 819-831.	0.7	19
133	Universal pleiotropy is not a valid null hypothesis: reply to Hill and Zhang. <i>Nature Reviews Genetics</i> , 2012, 13, 296-296.	7.7	19
134	A Molecular Footprint of Limb Loss: Sequence Variation of the Autopodial Identity Gene <i>Hoxa-13</i> . <i>Journal of Molecular Evolution</i> , 2008, 67, 581-593.	0.8	18
135	Evidence for independent evolution of functional progesterone withdrawal in primates and guinea pigs. <i>Evolution, Medicine and Public Health</i> , 2013, 2013, 273-288.	1.1	18
136	Canalization in evolutionary genetics: a stabilizing theory?. <i>BioEssays</i> , 2000, 22, 372-380.	1.2	18
137	Co-option of stress mechanisms in the origin of evolutionary novelties. <i>Evolution; International Journal of Organic Evolution</i> , 2022, 76, 394-413.	1.1	18
138	Measuring Transcription Factor Binding Site Turnover: A Maximum Likelihood Approach Using Phylogenies. <i>Genome Biology and Evolution</i> , 2009, 1, 85-98.	1.1	17
139	DATA AND DATA INTERPRETATION IN THE STUDY OF LIMB EVOLUTION: A REPLY TO GALIS ET AL. ON THE REEVOLUTION OF DIGITS IN THE LIZARD GENUS <i>BACHIA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, no-no.	1.1	17
140	Coming to Grips with Evolvability. <i>Evolution: Education and Outreach</i> , 2012, 5, 231-244.	0.3	17
141	Are there general laws for digit evolution in squamates? The loss and re-evolution of digits in a clade of fossorial lizards (<i>Brachymeles</i> , Scincinae). <i>Journal of Morphology</i> , 2018, 279, 1104-1119.	0.6	17
142	Evidence against tetrapod-wide digit identities and for a limited frame shift in bird wings. <i>Nature Communications</i> , 2019, 10, 3244.	5.8	17
143	Reframing research on evolutionary novelty and co-option: Character identity mechanisms versus deep homology. <i>Seminars in Cell and Developmental Biology</i> , 2023, 145, 3-12.	2.3	15
144	Regeneration in <i>Salaria pavo</i> (Blenniidae, Teleostei). <i>Anatomy and Embryology</i> , 1992, 186, 153-65.	1.5	14

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145	Revisiting a classic example of transcription factor functional equivalence: are <i>Eyeless</i> and <i>Pax6</i> functionally equivalent or divergent?. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2011, 316B, 93-98.	0.6	14
146	Molecular Evolution of CatSper in Mammals and Function of Sperm Hyperactivation in Gray Short-Tailed Opossum. <i>Cells</i> , 2021, 10, 1047.	1.8	14
147	An evolutionary test of the isoform switching hypothesis of functional progesterone withdrawal for parturition: humans have a weaker repressive effect of PR-A than mice. <i>Journal of Perinatal Medicine</i> , 2012, 40, 345-351.	0.6	13
148	An experimental test of the ovulatory homolog model of female orgasm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20267-20273.	3.3	13
149	The Primacy of Maternal Innovations to the Evolution of Embryo Implantation. <i>Integrative and Comparative Biology</i> , 2020, 60, 742-752.	0.9	13
150	A developmental perspective of homology and evolutionary novelty. <i>Current Topics in Developmental Biology</i> , 2021, 141, 1-38.	1.0	13
151	Measuring Evolutionary Constraints Through the Dimensionality of the Phenotype: Adjusted Bootstrap Method to Estimate Rank of Phenotypic Covariance Matrices. <i>Evolutionary Biology</i> , 2009, 36, 339-353.	0.5	12
152	Evolution of Gene Expression in the Uterine Cervix related to Steroid Signaling: Conserved features in the regulation of cervical ripening. <i>Scientific Reports</i> , 2017, 7, 4439.	1.6	12
153	Perspectives on Integrating Genetic and Physical Explanations of Evolution and Development: An Introduction to the Symposium. <i>Integrative and Comparative Biology</i> , 2017, 57, 1258-1268.	0.9	12
154	Comments on Boddy et al. 2020: Available data suggest positive relationship between placental invasion and malignancy. <i>Evolution, Medicine and Public Health</i> , 2020, 2020, 211-214.	1.1	12
155	Simon?Ando decomposability and fitness landscapes. <i>Theory in Biosciences</i> , 2004, 123, 139-180.	0.6	11
156	A simple model of co-evolutionary dynamics caused by epistatic selection. <i>Journal of Theoretical Biology</i> , 2008, 250, 48-65.	0.8	11
157	The fetal-maternal interface of the nine-banded armadillo: endothelial cells of maternal sinus are partially replaced by trophoblast. <i>Zoological Letters</i> , 2016, 2, 11.	0.7	11
158	Endometrial recognition of pregnancy occurs in the grey short-tailed opossum (<i>Monodelphis domestica</i>). <i>PLoS One</i> , 2010, 5, e11502.	1.2	11
159	Evolutionary Genetics: The Nature of Hidden Genetic Variation Unveiled. <i>Current Biology</i> , 2003, 13, R958-R960.	1.8	10
160	Reply to Liu: Inflammation before implantation both in evolution and development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3-E4.	3.3	9
161	Locomotion and palaeoclimate explain the re-evolution of quadrupedal body form in <i>Brachymeles</i> lizards. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20201994.	1.2	9
162	Tinkering with Transcription Factor Proteins: The Role of Transcription Factor Adaptation in Developmental Evolution. <i>Novartis Foundation Symposium</i> , 2007, 284, 116-129.	1.2	9

#	ARTICLE	IF	CITATIONS
163	A stochastic model for the evolution of transcription factor binding site abundance. <i>Journal of Theoretical Biology</i> , 2007, 247, 544-553.	0.8	8
164	Tracing the cis-regulatory changes underlying the endometrial control of placental invasion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	8
165	Two Rules for the Detection and Quantification of Epistasis and Other Interaction Effects. <i>Methods in Molecular Biology</i> , 2015, 1253, 145-157.	0.4	7
166	Apparent Stabilizing Selection and the Maintenance of Neutral Genetic Variation. <i>Genetics</i> , 1996, 143, 617-619.	1.2	7
167	Body Plan Identity: A Mechanistic Model. <i>Evolutionary Biology</i> , 2022, 49, 123-141.	0.5	7
168	Introduction to the papers of the 2001 kowalevsky medal winner symposium. <i>The Journal of Experimental Zoology</i> , 2004, 302B, 1-4.	1.4	6
169	Homology in the Age of Developmental Genomics. , 2015, , 25-43.		6
170	Hedgehog inhibition causes complete loss of limb outgrowth and transformation of digit identity in <i>Xenopus tropicalis</i> . , 2016, 326, 110-124.		6
171	What the Evolution of Female Orgasm Teaches Us. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2016, 326, 325-325.	0.6	6
172	Origin, Function, and Effects of Female Orgasm: All Three are Different. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2017, 328, 299-303.	0.6	6
173	Female Genital Variation Far Exceeds That of Male Genitalia: A Review of Comparative Anatomy of Clitoris and the Female Lower Reproductive Tract in Theria. <i>Integrative and Comparative Biology</i> , 2022, 62, 581-601.	0.9	6
174	Limusaurus and bird digit identity. <i>Nature Precedings</i> , 2009, , .	0.1	5
175	Testing Inferences in Developmental Evolution: The Forensic Evidence Principle. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2012, 318, 489-500.	0.6	5
176	Next Gen Devoâ€Evo. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2012, 318, 519-520.	0.6	5
177	Molecular evolution of HoxA13 and the multiple origins of limbless morphologies in amphibians and reptiles. <i>Genetics and Molecular Biology</i> , 2015, 38, 255-262.	0.6	5
178	Extending the Explanatory Scope of Evolutionary Theory: The Origination of Historical Kinds in Biology and Culture. <i>Philosophy Theory and Practice in Biology</i> , 2022, 14, .	0.2	5
179	The power of negative [theoretical] results. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12851-12852.	3.3	4
180	Reinventing the Organism: Evolvability and Homology in Post-Dahlem Evolutionary Biology. <i>Boston Studies in the Philosophy and History of Science</i> , 2015, , 327-342.	0.4	4

#	ARTICLE	IF	CITATIONS
181	Molecular and developmental evolution editorial. , 1999, 285, 1-2.		3
182	Wagner et al. reply. Nature, 2008, 456, E4-E4.	13.7	3
183	Using <sc>3D</sc>â€œdigital photogrammetry to examine scaling of the body axis in burrowing skinks. Journal of Morphology, 2020, 281, 1382-1390.	0.6	3
184	Cooption of polyalanine tract into a repressor domain in the mammalian transcription factor HoxA11. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2023, 340, 486-495.	0.6	3
185	TO EPISTASIS?AND BEYOND!. Evolution; International Journal of Organic Evolution, 2002, 56, 852-855.	1.1	2
186	Conceptual continuity as a mode of understanding complex systems: Applications to the dynamics sociopolitical systems. Complexity, 2006, 11, 20-24.	0.9	2
187	Homology and the evolutionary process: reply to Haig, Love and Brown on â€œHomology, Genes and Evolutionary Innovationâ€•. Biology and Philosophy, 2015, 30, 901-912.	0.7	2
188	Devo-Evo of Cell Types. , 2021, , 511-528.		2
189	Hidden limbs in the â€œlimbless skinkâ€•<i>Brachymeles lukbani</i>: Developmental observations. Journal of Anatomy, 2021, 239, 693-703.	0.9	2
190	ECOLOGY: Mothers Driving Cycles. Science, 2005, 309, 2001-2001.	6.0	1
191	Sacrificing Dialogue for Politics?. Science, 2005, 309, 1324b-1324b.	6.0	1
192	The evolution of empathy and devoâ€œvoâ€•”What is the connection?. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2018, 330, 65-65.	0.6	1
193	Comparative Placentation-Mammals. , 2018, , 455-461.		1
194	Evolutionary Genomics of Hox Gene Clusters. , 2007, , 68-90.		1
195	The Test Distribution of Modularity Statistics: A Correction and a Clarification. Genetics, 2001, 158, 1381-1381.	1.2	1
196	Devo-Evo of Cell Types. , 2019, , 1-18.		1
197	BIO. Evolution & Development, 2009, 11, 139-141.	1.1	0
198	A NEW SYNTHESIS FINALLY ARRIVING!. Evolution; International Journal of Organic Evolution, 2010, 64, no-no.	1.1	0

#	ARTICLE	IF	CITATIONS
199	The first decades of developmental evolution and the <i>Journal of Experimental Zoology</i> , <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2018, 330, 395-395.	0.6	0
200	Reply to Quintana et al.: Behavior is an unlikely mediator of fluoxetine effects on ovulation in rabbits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25384-25385.	3.3	0