Gunter P Wagner

List of Publications by Year in descending order

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		22153	17105
200	17,917	59	122
papers	citations	h-index	g-index
223	223	223	16182
225	225	225	10102
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Measurement of mRNA abundance using RNA-seq data: RPKM measure is inconsistent among samples. Theory in Biosciences, 2012, 131, 281-285.	1.4	1,737
2	PERSPECTIVE: COMPLEX ADAPTATIONS AND THE EVOLUTION OF EVOLVABILITY. Evolution; International Journal of Organic Evolution, 1996, 50, 967-976.	2.3	1,025
3	The road to modularity. Nature Reviews Genetics, 2007, 8, 921-931.	16.3	853
4	Perspective: Complex Adaptations and the Evolution of Evolvability. Evolution; International Journal of Organic Evolution, 1996, 50, 967.	2.3	799
5	Homologues, Natural Kinds and the Evolution of Modularity. American Zoologist, 1996, 36, 36-43.	0.7	661
6	The pleiotropic structure of the genotype–phenotype map: the evolvability of complex organisms. Nature Reviews Genetics, 2011, 12, 204-213.	16.3	577
7	The origin and evolution of cell types. Nature Reviews Genetics, 2016, 17, 744-757.	16.3	572
8	A POPULATION GENETIC THEORY OF CANALIZATION. Evolution; International Journal of Organic Evolution, 1997, 51, 329-347.	2.3	444
9	Transposon-mediated rewiring of gene regulatory networks contributed to the evolution of pregnancy in mammals. Nature Genetics, 2011, 43, 1154-1159.	21.4	400
10	The developmental genetics of homology. Nature Reviews Genetics, 2007, 8, 473-479.	16.3	339
11	Canalization in evolutionary genetics: a stabilizing theory?. BioEssays, 2000, 22, 372-380.	2.5	311
12	The Topology of the Possible: Formal Spaces Underlying Patterns of Evolutionary Change. Journal of Theoretical Biology, 2001, 213, 241-274.	1.7	265
13	Measurement and Meaning in Biology. Quarterly Review of Biology, 2011, 86, 3-34.	0.1	264
14	Single-cell transcriptomics of the human placenta: inferring the cell communication network of the maternal-fetal interface. Genome Research, 2017, 27, 349-361.	5.5	260
15	Ancient Transposable Elements Transformed the Uterine Regulatory Landscape and Transcriptome during the Evolution of Mammalian Pregnancy. Cell Reports, 2015, 10, 551-561.	6.4	249
16	A Population Genetic Theory of Canalization. Evolution; International Journal of Organic Evolution, 1997, 51, 329.	2.3	233
17	The Population Genetic Theory of Hidden Variation and Genetic Robustness. Genetics, 2004, 168, 2271-2284.	2.9	227
18	What Is the Role of Genome Duplication in the Evolution of Complexity and Diversity?. Molecular	8.9	223

Biology and Evolution, 2006, 23, 887-892.

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19	Evolutionary novelties. Current Biology, 2010, 20, R48-R52.	3.9	218
20	Development and the evolvability of human limbs. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3400-3405.	7.1	217
21	Modeling Genetic Architecture: A Multilinear Theory of Gene Interaction. Theoretical Population Biology, 2001, 59, 61-86.	1.1	203
22	Pleiotropic scaling of gene effects and the â€~cost of complexity'. Nature, 2008, 452, 470-472.	27.8	201
23	Measuring Morphological Integration Using Eigenvalue Variance. Evolutionary Biology, 2009, 36, 157-170.	1.1	184
24	RESURRECTING THE ROLE OF TRANSCRIPTION FACTOR CHANGE IN DEVELOPMENTAL EVOLUTION. Evolution; International Journal of Organic Evolution, 2008, 62, 2131-2154.	2.3	179
25	The "Fish-Specific―Hox Cluster Duplication Is Coincident with the Origin of Teleosts. Molecular Biology and Evolution, 2006, 23, 121-136.	8.9	170
26	The gene regulatory logic of transcription factor evolution. Trends in Ecology and Evolution, 2008, 23, 377-385.	8.7	169
27	Embryo implantation evolved from an ancestral inflammatory attachment reaction. Proceedings of the United States of America, 2017, 114, E6566-E6575.	7.1	165
28	A model based criterion for gene expression calls using RNA-seq data. Theory in Biosciences, 2013, 132, 159-164.	1.4	160
29	Menstruation: science and society. American Journal of Obstetrics and Gynecology, 2020, 223, 624-664.	1.3	149
30	Developmental Evolution as a Mechanistic Science: The Inference from Developmental Mechanisms to Evolutionary Processes1. American Zoologist, 2000, 40, 819-831.	0.7	142
31	A model of developmental evolution: selection, pleiotropy and compensation. Trends in Ecology and Evolution, 2012, 27, 316-322.	8.7	140
32	The evolution of menstruation: A new model for genetic assimilation. BioEssays, 2012, 34, 26-35.	2.5	135
33	Evolution of functional specialization and division of labor. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E326-35.	7.1	130
34	Is the Genotype-Phenotype Map Modular?: A Statistical Approach Using Mouse Quantitative Trait Loci Data. Genetics, 2000, 156, 305-311.	2.9	130
35	EVIDENCE FOR THE REVERSIBILITY OF DIGIT LOSS: A PHYLOGENETIC STUDY OF LIMB EVOLUTION IN BACHIA (GYMNOPHTHALMIDAE: SQUAMATA). Evolution; International Journal of Organic Evolution, 2006, 60, 1896-1912.	2.3	119
36	What is the promise of developmental evolution? part I: Why is developmental biology necessary to explain evolutionary innovations?. The Journal of Experimental Zoology, 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. American Naturalist, 2003, 161, 708-734.	2.1	116
38	THE EVOLUTION OF PHENOTYPIC CORRELATIONS AND "DEVELOPMENTAL MEMORY― Evolution; International Journal of Organic Evolution, 2014, 68, 1124-1138.	2.3	103
39	Convergent Evolution of Endometrial Prolactin Expression in Primates, Mice, and Elephants Through the Independent Recruitment of Transposable Elements. Molecular Biology and Evolution, 2012, 29, 239-247.	8.9	100
40	Evolution of adaptive phenotypic variation patterns by direct selection for evolvability. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 1903-1912.	2.6	97
41	Regulatory evolution through divergence of a phosphoswitch in the transcription factor CEBPB. Nature, 2011, 480, 383-386.	27.8	96
42	Molecular evolution of the HoxA cluster in the three major gnathostome lineages. Proceedings of the United States of America, 2002, 99, 5492-5497.	7.1	94
43	Adaptive changes in the transcription factor HoxA-11 are essential for the evolution of pregnancy in mammals. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14928-14933.	7.1	90
44	Bichir HoxA Cluster Sequence Reveals Surprising Trends in Ray-Finned Fish Genomic Evolution. Genome Research, 2003, 14, 11-17.	5.5	89
45	DID EGG-LAYING BOAS BREAK DOLLO'S LAW? PHYLOGENETIC EVIDENCE FOR REVERSAL TO OVIPARITY IN SAND BOAS (<i>ERYX</i> : BOIDAE). Evolution; International Journal of Organic Evolution, 2010, 64, 207-216.	2.3	85
46	Evidence for independent Hox gene duplications in the hagfish lineage: a PCR-based gene inventory of Eptatretus stoutii. Molecular Phylogenetics and Evolution, 2004, 32, 686-694.	2.7	82
47	HoxA-11 and FOXO1A Cooperate to Regulate Decidual Prolactin Expression: Towards Inferring the Core Transcriptional Regulators of Decidual Genes. PLoS ONE, 2009, 4, e6845.	2.5	82
48	The tetrapod limb: A hypothesis on its origin. The Journal of Experimental Zoology, 2001, 291, 226-240.	1.4	81
49	The mammalian decidual cell evolved from a cellular stress response. PLoS Biology, 2018, 16, e2005594.	5.6	79
50	Rupert riedl and the re-synthesis of evolutionary and developmental biology: Body plans and evolvability. The Journal of Experimental Zoology, 2004, 302B, 92-102.	1.4	77
51	Cell-type Phylogenetics and the Origin of Endometrial Stromal Cells. Cell Reports, 2015, 10, 1398-1409.	6.4	75
52	EVOLUTION OF GENETIC ARCHITECTURE UNDER DIRECTIONAL SELECTION. Evolution; International Journal of Organic Evolution, 2006, 60, 1523-1536.	2.3	71
53	What is the promise of developmental evolution? Part II: A causal explanation of evolutionary innovations may be impossible. The Journal of Experimental Zoology, 2001, 291, 305-309.	1.4	70
54	Transformation of a transposon into a derived prolactin promoter with function during human pregnancy. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11246-11251.	7.1	70

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55	Pervasive Correlated Evolution in Gene Expression Shapes Cell and Tissue Type Transcriptomes. Genome Biology and Evolution, 2018, 10, 538-552.	2.5	70
56	Pentadactyl ground state of the avian wing. The Journal of Experimental Zoology, 2002, 294, 146-151.	1.4	68
57	Transcriptomic analysis of avian digits reveals conserved and derived digit identities in birds. Nature, 2011, 477, 583-586.	27.8	67
58	Quasi-Independence, Homology and the Unity of Type: A Topological Theory of Characters. Journal of Theoretical Biology, 2003, 220, 505-527.	1.7	66
59	Character trees from transcriptome data: Origin and individuation of morphological characters and the soâ€called "species signal― Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2015, 324, 588-604.	1.3	66
60	Ten years of genetics and genomics: what have we achieved and where are we heading?. Nature Reviews Genetics, 2010, 11, 723-733.	16.3	65
61	What is "homology thinking―and what is it for?. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2016, 326, 3-8.	1.3	64
62	How Molecular is Molecular Developmental Biology? A Reply to Alex Rosenberg's Reductionism Redux: Computing the Embryo. Biology and Philosophy, 2001, 16, 53-68.	1.4	63
63	Evolution of mammalian pregnancy and the origin of the decidual stromal cell. International Journal of Developmental Biology, 2014, 58, 117-126.	0.6	62
64	The core transcriptome of mammalian placentas and the divergence of expression with placental shape. Placenta, 2017, 57, 71-78.	1.5	62
65	Expression ofHoxa-11andHoxa-13in the pectoral fin of a basal ray-finned fish,Polyodon spathula: implications for the origin of tetrapod limbs. Evolution & Development, 2005, 7, 186-195.	2.0	61
66	Genetic measurement theory of epistatic effects. Genetica, 1998, 102/103, 569-580.	1.1	58
67	An Independent Genome Duplication Inferred from Hox Paralogs in the American Paddlefish—A Representative Basal Ray-Finned Fish and Important Comparative Reference. Genome Biology and Evolution, 2012, 4, 937-953.	2.5	58
68	THE MEASUREMENT THEORY OF FITNESS. Evolution; International Journal of Organic Evolution, 2010, 64, 1358-76.	2.3	56
69	The placenta as a model for understanding the origin and evolution of vertebrate organs. Nature Ecology and Evolution, 2017, 1, 72.	7.8	56
70	Evolutionary innovations overcome ancestral constraints: a re-examination of character evolution in male sepsid flies (Diptera: Sepsidae). Evolution & Development, 2002, 4, 1-6.	2.0	55
71	Evidence for Four Hox Clusters in the KillifishFundulus heteroclitus(Teleostei). Molecular Phylogenetics and Evolution, 1996, 5, 309-322.	2.7	54
72	Evolution of placental invasion and cancer metastasis are causally linked. Nature Ecology and Evolution, 2019, 3, 1743-1753.	7.8	53

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73	QUANTITATIVE VARIATION IN FINITE PARTHENOGENETIC POPULATIONS: WHAT STOPS MULLER'S RATCHET IN THE ABSENCE OF RECOMBINATION?. Evolution; International Journal of Organic Evolution, 1990, 44, 715-731.	2.3	51
74	The Evolutionary Origin of Female Orgasm. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2016, 326, 326-337.	1.3	51
75	Stressâ€Induced Evolutionary Innovation: A Mechanism for the Origin of Cell Types. BioEssays, 2019, 41, e1800188.	2.5	51
76	The biological role of homologues: A building block hypothesis. Neues Jahrbuch Fur Geologie Und Palaontologie - Abhandlungen, 1995, 195, 279-288.	0.4	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. Development Genes and Evolution, 1998, 208, 175-187.	0.9	50
78	Malignant cancer and invasive placentation: A case for positive pleiotropy between endometrial and malignancy phenotypes. Evolution, Medicine and Public Health, 2014, 2014, 136-145.	2.5	49
79	The statistical geometry of transcriptome divergence in cell-type evolution and cancer. Nature Communications, 2015, 6, 6066.	12.8	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. Placenta, 2016, 40, 40-51.	1.5	47
82	Epistasis and the Mutation Load: A Measurement-Theoretical Approach. Genetics, 2001, 158, 477-485.	2.9	47
83	The Evolution of HoxD-11 Expression in the Bird Wing: Insights from Alligator mississippiensis. PLoS ONE, 2008, 3, e3325.	2.5	46
84	Surveying phylogenetic footprints in large gene clusters: applications to Hox cluster duplications. Molecular Phylogenetics and Evolution, 2004, 31, 581-604.	2.7	45
85	Of chicken wings and frog legs: A smorgasbord of evolutionary variation in mechanisms of tetrapod limb development. Developmental Biology, 2005, 288, 21-39.	2.0	45
86	Decidualization of Human Endometrial Stromal Fibroblasts is a Multiphasic Process Involving Distinct Transcriptional Programs. Reproductive Sciences, 2019, 26, 323-336.	2.5	45
87	The Transcriptomic Evolution of Mammalian Pregnancy: Gene Expression Innovations in Endometrial Stromal Fibroblasts. Genome Biology and Evolution, 2016, 8, 2459-2473.	2.5	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. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E414-20.	7.1	42
90	Evolution of Chordate Hox Gene Clustersa. Annals of the New York Academy of Sciences, 1999, 870, 238-248.	3.8	40

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91	Evolution of digit identity in the threeâ€toed Italian skink <i>Chalcides chalcides</i> : a new case of digit identity frame shift. Evolution & Development, 2009, 11, 647-658.	2.0	38
92	Finding the frame shift: digit loss, developmental variability, and the origin of the avian hand. Evolution & Development, 2011, 13, 269-279.	2.0	38
93	Evolutionary innovations and novelties: Let us get down to business!. Zoologischer Anzeiger, 2015, 256, 75-81.	0.9	38
94	Character identity mechanisms: a conceptual model for comparative-mechanistic biology. Biology and Philosophy, 2020, 35, 1.	1.4	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. Journal of Molecular Evolution, 2005, 60, 665-676.	1.8	36
96	The developmental evolution of avian digit homology: An update. Theory in Biosciences, 2005, 124, 165-183.	1.4	36
97	Frameâ€shifts of digit identity in bird evolution and Cyclopamineâ€ŧreated wings. Evolution & Development, 2009, 11, 163-169.	2.0	36
98	Quantitative Variation in Finite Parthenogenetic Populations: What Stops Muller's Ratchet in the Absence of Recombination?. Evolution; International Journal of Organic Evolution, 1990, 44, 715.	2.3	35
99	Character identification in evolutionary biology: The role of the organism. Theory in Biosciences, 2000, 119, 20-40.	1.4	35
100	Recombination induced hypergraphs: A new approach to mutation-recombination isomorphism. Complexity, 1996, 2, 37-43.	1.6	34
101	Population Dependent Fourier Decomposition of Fitness Landscapes over Recombination Spaces: Evolvability of Complex Characters. Bulletin of Mathematical Biology, 2000, 62, 399-428.	1.9	34
102	Protein Structural Modularity and Robustness Are Associated with Evolvability. Genome Biology and Evolution, 2011, 3, 456-475.	2.5	34
103	Adaptive evolution of Hox-gene homeodomains after cluster duplications. BMC Evolutionary Biology, 2006, 6, 86.	3.2	32
104	Enhanced drug delivery to the reproductive tract using nanomedicine reveals therapeutic options for prevention of preterm birth. Science Translational Medicine, 2021, 13, .	12.4	32
105	Adaptive evolution of HoxA–11 and HoxA–13 at the origin of the uterus in mammals. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 2201-2207.	2.6	31
106	Nuclear β atenin localization supports homology of feathers, avian scutate scales, and alligator scales in early development. Evolution & Development, 2015, 17, 185-194.	2.0	31
107	Immunohistological Study of the Endometrial Stromal Fibroblasts in the Opossum, Monodelphis domestica: Evidence for Homology with Eutherian Stromal Fibroblasts1. Biology of Reproduction, 2014, 90, 111.	2.7	30
108	Evolution ofHoxa-11Expression in Amphibians: Is the Urodele Autopodium an Innovation?. American Zoologist, 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. Molecular Biology and Evolution, 2016, 33, 3161-3169.	8.9	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). Evolution; International Journal of Organic Evolution, 2009, 63, 1574-1592.	2.3	28
111	Evidence for the reversibility of digit loss: a phylogenetic study of limb evolution in Bachia (Gymnophthalmidae: Squamata). Evolution; International Journal of Organic Evolution, 2006, 60, 1896-912.	2.3	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. Journal of Theoretical Biology, 2000, 203, 163-175.	1.7	26
114	What does it take to evolve behaviorally complex organisms?. BioSystems, 2003, 69, 245-262.	2.0	26
115	Evolution of Hoxa-11 in Lineages Phylogenetically Positioned along the Fin–Limb Transition. Molecular Phylogenetics and Evolution, 2000, 17, 305-316.	2.7	25
116	What is the promise of developmental evolution? III. The crucible of developmental evolution. The Journal of Experimental Zoology, 2003, 300B, 1-4.	1.4	25
117	Identity of the avian wing digits: Problems resolved and unsolved. Developmental Dynamics, 2011, 240, 1042-1053.	1.8	25
118	A Derived Allosteric Switch Underlies the Evolution of Conditional Cooperativity between HOXA11 and FOXO1. Cell Reports, 2016, 15, 2097-2108.	6.4	25
119	Divergence of Conserved Non-Coding Sequences: Rate Estimates and Relative Rate Tests. Molecular Biology and Evolution, 2004, 21, 2116-2121.	8.9	24
120	Why ontogenetic homology criteria can be misleading: lessons from digit identity transformations. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2011, 316B, 165-170.	1.3	24
121	Beyond Digital Naturalism. Artificial Life, 1993, 1, 211-227.	1.3	23
122	Molecular evolution of evolutionary novelties: the vagina and uterus of therian mammals. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2005, 304B, 580-592.	1.3	23
123	On the nature of thumbs. Genome Biology, 2008, 9, 213.	9.6	23
124	On the definition and measurement of pleiotropy. Trends in Genetics, 2013, 29, 383-384.	6.7	23
125	Evolution of Embryo Implantation Was Enabled by the Origin of Decidual Stromal Cells in Eutherian Mammals. Molecular Biology and Evolution, 2021, 38, 1060-1074.	8.9	23
126	Single-cell analysis of prostaglandin E2-induced human decidual cell in vitro differentiation: a minimal ancestral deciduogenic signal. Biology of Reproduction, 2022, 106, 155-172.	2.7	23

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127	The Shark HoxN Cluster Is Homologous to the Human HoxD Cluster. Journal of Molecular Evolution, 2004, 58, 212-217.	1.8	22
128	Organism and Character Decomposition: Steps towards an Integrative Theory of Biology. Philosophy of Science, 2000, 67, S289-S300.	1.0	21
129	The origin of platelets enabled the evolution of eutherian placentation. Biology Letters, 2019, 15, 20190374.	2.3	21
130	Cooperative inflammation: The recruitment of inflammatory signaling in marsupial and eutherian pregnancy. Journal of Reproductive Immunology, 2020, 137, 102626.	1.9	20
131	The Coevolution of Placentation and Cancer. Annual Review of Animal Biosciences, 2022, 10, 259-279.	7.4	20
132	Developmental Evolution as a Mechanistic Science: The Inference from Developmental Mechanisms to Evolutionary Processes. American Zoologist, 2000, 40, 819-831.	0.7	19
133	Universal pleiotropy is not a valid null hypothesis: reply to Hill and Zhang. Nature Reviews Genetics, 2012, 13, 296-296.	16.3	19
134	A Molecular Footprint of Limb Loss: Sequence Variation of the Autopodial Identity Gene Hoxa-13. Journal of Molecular Evolution, 2008, 67, 581-593.	1.8	18
135	Evidence for independent evolution of functional progesterone withdrawal in primates and guinea pigs. Evolution, Medicine and Public Health, 2013, 2013, 273-288.	2.5	18
136	Canalization in evolutionary genetics: a stabilizing theory?. BioEssays, 2000, 22, 372-380.	2.5	18
137	Coâ€option of stress mechanisms in the origin of evolutionary novelties. Evolution; International Journal of Organic Evolution, 2022, 76, 394-413.	2.3	18
138	Measuring Transcription Factor–Binding Site Turnover: A Maximum Likelihood Approach Using Phylogenies. Genome Biology and Evolution, 2009, 1, 85-98.	2.5	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 BACHIA. Evolution; International Journal of Organic Evolution, 2010, 64, no-no.	2.3	17
140	Coming to Grips with Evolvability. Evolution: Education and Outreach, 2012, 5, 231-244.	0.8	17
141	Are there general laws for digit evolution in squamates? The loss and reâ€evolution of digits in a clade of fossorial lizards (<i>Brachymeles</i> , Scincinae). Journal of Morphology, 2018, 279, 1104-1119.	1.2	17
142	Evidence against tetrapod-wide digit identities and for a limited frame shift in bird wings. Nature Communications, 2019, 10, 3244.	12.8	17
143	Reframing research on evolutionary novelty and co-option: Character identity mechanisms versus deep homology. Seminars in Cell and Developmental Biology, 2023, 145, 3-12.	5.0	15
144	Regeneration in Salaria pavo (Blenniidae, Teleostei). Anatomy and Embryology, 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?. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2011, 316B, 93-98.	1.3	14
146	Molecular Evolution of CatSper in Mammals and Function of Sperm Hyperactivation in Gray Short-Tailed Opossum. Cells, 2021, 10, 1047.	4.1	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. Journal of Perinatal Medicine, 2012, 40, 345-351.	1.4	13
148	An experimental test of the ovulatory homolog model of female orgasm. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20267-20273.	7.1	13
149	The Primacy of Maternal Innovations to the Evolution of Embryo Implantation. Integrative and Comparative Biology, 2020, 60, 742-752.	2.0	13
150	A developmental perspective of homology and evolutionary novelty. Current Topics in Developmental Biology, 2021, 141, 1-38.	2.2	13
151	Measuring Evolutionary Constraints Through the Dimensionality of the Phenotype: Adjusted Bootstrap Method to Estimate Rank of Phenotypic Covariance Matrices. Evolutionary Biology, 2009, 36, 339-353.	1.1	12
152	Evolution of Gene Expression in the Uterine Cervix related to Steroid Signaling: Conserved features in the regulation of cervical ripening. Scientific Reports, 2017, 7, 4439.	3.3	12
153	Perspectives on Integrating Genetic and Physical Explanations of Evolution and Development: An Introduction to the Symposium. Integrative and Comparative Biology, 2017, 57, 1258-1268.	2.0	12
154	Comments on Boddy et al. 2020: Available data suggest positive relationship between placental invasion and malignancy. Evolution, Medicine and Public Health, 2020, 2020, 211-214.	2.5	12
155	Simon?Ando decomposability and fitness landscapes. Theory in Biosciences, 2004, 123, 139-180.	1.4	11
156	A simple model of co-evolutionary dynamics caused by epistatic selection. Journal of Theoretical Biology, 2008, 250, 48-65.	1.7	11
157	The fetal-maternal interface of the nine-banded armadillo: endothelial cells of maternal sinus are partially replaced by trophoblast. Zoological Letters, 2016, 2, 11.	1.3	11
158	Endometrial recognition of pregnancy occurs in the grey short-tailed opossum (<i>Monodelphis) Tj ETQq0 0 C</i>) rgBT /Over 2.6	lock_10 Tf 50
159	Evolutionary Genetics: The Nature of Hidden Genetic Variation Unveiled. Current Biology, 2003, 13, R958-R960.	3.9	10
160	Reply to Liu: Inflammation before implantation both in evolution and development. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3-E4.	7.1	9
161	Locomotion and palaeoclimate explain the re-evolution of quadrupedal body form in <i>Brachymeles</i> lizards. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201994.	2.6	9
162	Tinkering with Transcription Factor Proteins: The Role of Transcription Factor Adaptation in Developmental Evolution. Novartis Foundation Symposium, 2007, 284, 116-129.	1.1	9

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163	A stochastic model for the evolution of transcription factor binding site abundance. Journal of Theoretical Biology, 2007, 247, 544-553.	1.7	8
164	Tracing the cis-regulatory changes underlying the endometrial control of placental invasion. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	8
165	Two Rules for the Detection and Quantification of Epistasis and Other Interaction Effects. Methods in Molecular Biology, 2015, 1253, 145-157.	0.9	7
166	Apparent Stabilizing Selection and the Maintenance of Neutral Genetic Variation. Genetics, 1996, 143, 617-619.	2.9	7
167	Body Plan Identity: A Mechanistic Model. Evolutionary Biology, 2022, 49, 123-141.	1.1	7
168	Introduction to the papers of the 2001 kowalevsky medal winner symposium. The Journal of Experimental Zoology, 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. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2016, 326, 325-325.	1.3	6
172	Origin, Function, and Effects of Female Orgasm: All Three are Different. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2017, 328, 299-303.	1.3	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. Integrative and Comparative Biology, 2022, 62, 581-601.	2.0	6
174	Limusaurus and bird digit identity. Nature Precedings, 2009, , .	0.1	5
175	Testing Inferences in Developmental Evolution: The Forensic Evidence Principle. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2012, 318, 489-500.	1.3	5
176	Next Gen Devoâ€Evo. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2012, 318, 519-520.	1.3	5
177	Molecular evolution of HoxA13 and the multiple origins of limbless morphologies in amphibians and reptiles. Genetics and Molecular Biology, 2015, 38, 255-262.	1.3	5
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