

Gunter P Wagner

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

196
papers

13,200
citations

54
h-index

112
g-index

223
ext. papers

16,047
ext. citations

6.9
avg, IF

6.97
L-index

#	Paper	IF	Citations
196	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,	2	2
195	The Coevolution of Placentation and Cancer. <i>Annual Review of Animal Biosciences</i> , 2021 ,	13.7	5
194	Molecular Evolution of CatSper in Mammals and Function of Sperm Hyperactivation in Gray Short-Tailed Opossum. <i>Cells</i> , 2021 , 10,	7.9	4
193	Hidden limbs in the "limbless skink" <i>Brachymeles lukbani</i> : Developmental observations. <i>Journal of Anatomy</i> , 2021 , 239, 693-703	2.9	1
192	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	8.3	8
191	A developmental perspective of homology and evolutionary novelty. <i>Current Topics in Developmental Biology</i> , 2021 , 141, 1-38	5.3	3
190	Devo-Evo of Cell Types 2021 , 511-528		0
189	Single-cell analysis of prostaglandin E2-induced human decidual cell in vitro differentiation: A minimal ancestral decidual signal. <i>Biology of Reproduction</i> , 2021 ,	3.9	1
188	Enhanced drug delivery to the reproductive tract using nanomedicine reveals therapeutic options for prevention of preterm birth. <i>Science Translational Medicine</i> , 2021 , 13,	17.5	12
187	The Primacy of Maternal Innovations to the Evolution of Embryo Implantation. <i>Integrative and Comparative Biology</i> , 2020 , 60, 742-752	2.8	8
186	Comments on Boddy 2020: Available data suggest positive relationship between placental invasion and malignancy. <i>Evolution, Medicine and Public Health</i> , 2020 , 2020, 211-214	3	4
185	Cooperative inflammation: The recruitment of inflammatory signaling in marsupial and eutherian pregnancy. <i>Journal of Reproductive Immunology</i> , 2020 , 137, 102626	4.2	10
184	Menstruation: science and society. <i>American Journal of Obstetrics and Gynecology</i> , 2020 , 223, 624-664	6.4	32
183	Locomotion and palaeoclimate explain the re-evolution of quadrupedal body form in lizards. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020 , 287, 20201994	4.4	3
182	Character identity mechanisms: a conceptual model for comparative-mechanistic biology. <i>Biology and Philosophy</i> , 2020 , 35, 1	1.7	15
181	Using 3D-digital photogrammetry to examine scaling of the body axis in burrowing skinks. <i>Journal of Morphology</i> , 2020 , 281, 1382-1390	1.6	1
180	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	11.5	6

179	Stress-Induced Evolutionary Innovation: A Mechanism for the Origin of Cell Types. <i>BioEssays</i> , 2019 , 41, e1800188	4.1	31
178	Endometrial recognition of pregnancy occurs in the grey short-tailed opossum (<i>Monodelphis domestica</i>). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019 , 286, 20190691	4.4	10
177	The origin of platelets enabled the evolution of eutherian placentation. <i>Biology Letters</i> , 2019 , 15, 20190374	3.74	11
176	Evidence against tetrapod-wide digit identities and for a limited frame shift in bird wings. <i>Nature Communications</i> , 2019 , 10, 3244	17.4	10
175	Devo-Evo of Cell Types 2019 , 1-18		1
174	Evolution of placental invasion and cancer metastasis are causally linked. <i>Nature Ecology and Evolution</i> , 2019 , 3, 1743-1753	12.3	25
173	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	11.5	115
172	Decidualization of Human Endometrial Stromal Fibroblasts is a Multiphasic Process Involving Distinct Transcriptional Programs. <i>Reproductive Sciences</i> , 2019 , 26, 323-336	3	20
171	Pervasive Correlated Evolution in Gene Expression Shapes Cell and Tissue Type Transcriptomes. <i>Genome Biology and Evolution</i> , 2018 , 10, 538-552	3.9	30
170	Comparative Placentation-Mammals 2018 , 455-461		1
169	The mammalian decidual cell evolved from a cellular stress response. <i>PLoS Biology</i> , 2018 , 16, e2005594	9.7	51
168	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> , <i>Scincinae</i>). <i>Journal of Morphology</i> , 2018 , 279, 1104-1119	1.6	10
167	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	11.5	8
166	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	9.7	142
165	The placenta as a model for understanding the origin and evolution of vertebrate organs. <i>Nature Ecology and Evolution</i> , 2017 , 1, 72	12.3	39
164	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	1.8	5
163	The core transcriptome of mammalian placentas and the divergence of expression with placental shape. <i>Placenta</i> , 2017 , 57, 71-78	3.4	31
162	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	11.5	115

161	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	11.5	2
160	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	4.9	8
159	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	2.8	7
158	The Evolutionary Origin of Female Orgasm. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2016 , 326, 326-337	1.8	30
157	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	8.3	18
156	The Transcriptomic Evolution of Mammalian Pregnancy: Gene Expression Innovations in Endometrial Stromal Fibroblasts. <i>Genome Biology and Evolution</i> , 2016 , 8, 2459-73	3.9	26
155	The origin and evolution of cell types. <i>Nature Reviews Genetics</i> , 2016 , 17, 744-757	30.1	323
154	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	3	9
153	What was the ancestral function of decidual stromal cells? A model for the evolution of eutherian pregnancy. <i>Placenta</i> , 2016 , 40, 40-51	3.4	35
152	Hedgehog inhibition causes complete loss of limb outgrowth and transformation of digit identity in <i>Xenopus tropicalis</i> . <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2016 , 326, 110-24	1.8	3
151	A Derived Allosteric Switch Underlies the Evolution of Conditional Cooperativity between HOXA11 and FOXO1. <i>Cell Reports</i> , 2016 , 15, 2097-2108	10.6	17
150	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	1.8	34
149	Nuclear Ectenin localization supports homology of feathers, avian scutate scales, and alligator scales in early development. <i>Evolution & Development</i> , 2015 , 17, 185-94	2.6	24
148	Evolutionary innovations and novelties: Let us get down to business!. <i>Zoologischer Anzeiger</i> , 2015 , 256, 75-81	1.1	22
147	Cell-type phylogenetics and the origin of endometrial stromal cells. <i>Cell Reports</i> , 2015 , 10, 1398-409	10.6	53
146	Homology in the Age of Developmental Genomics 2015 , 25-43		5
145	Homology and the evolutionary process: reply to Haig, Love and Brown on Homology, Genes and Evolutionary Innovation <i>Biology and Philosophy</i> , 2015 , 30, 901-912	1.7	2
144	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	1.8	40

143	Molecular evolution of HoxA13 and the multiple origins of limbless morphologies in amphibians and reptiles. <i>Genetics and Molecular Biology</i> , 2015 , 38, 255-62	2	3
142	Ancient transposable elements transformed the uterine regulatory landscape and transcriptome during the evolution of mammalian pregnancy. <i>Cell Reports</i> , 2015 , 10, 551-61	10.6	158
141	The statistical geometry of transcriptome divergence in cell-type evolution and cancer. <i>Nature Communications</i> , 2015 , 6, 6066	17.4	33
140	Two rules for the detection and quantification of epistasis and other interaction effects. <i>Methods in Molecular Biology</i> , 2015 , 1253, 145-57	1.4	3
139	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	0.2	
138	The evolution of phenotypic correlations and "developmental memory". <i>Evolution; International Journal of Organic Evolution</i> , 2014 , 68, 1124-38	3.8	64
137	Evolution of mammalian pregnancy and the origin of the decidual stromal cell. <i>International Journal of Developmental Biology</i> , 2014 , 58, 117-26	1.9	46
136	Malignant cancer and invasive placentation: A case for positive pleiotropy between endometrial and malignancy phenotypes. <i>Evolution, Medicine and Public Health</i> , 2014 , 2014, 136-45	3	36
135	Immunohistological study of the endometrial stromal fibroblasts in the opossum, <i>Monodelphis domestica</i> : evidence for homology with eutherian stromal fibroblasts. <i>Biology of Reproduction</i> , 2014 , 90, 111	3.9	24
134	Homology, Genes, and Evolutionary Innovation 2014 ,		111
133	Homology, Genes, and Evolutionary Innovation 2014 ,		79
132	A model based criterion for gene expression calls using RNA-seq data. <i>Theory in Biosciences</i> , 2013 , 132, 159-64	1.3	106
131	On the definition and measurement of pleiotropy. <i>Trends in Genetics</i> , 2013 , 29, 383-4	8.5	18
130	Evidence for independent evolution of functional progesterone withdrawal in primates and guinea pigs. <i>Evolution, Medicine and Public Health</i> , 2013 , 2013, 273-88	3	14
129	The evolution of menstruation: a new model for genetic assimilation: explaining molecular origins of maternal responses to fetal invasiveness. <i>BioEssays</i> , 2012 , 34, 26-35	4.1	100
128	A model of developmental evolution: selection, pleiotropy and compensation. <i>Trends in Ecology and Evolution</i> , 2012 , 27, 316-22	10.9	106
127	Measurement of mRNA abundance using RNA-seq data: RPKM measure is inconsistent among samples. <i>Theory in Biosciences</i> , 2012 , 131, 281-5	1.3	1009
126	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	1.8	3

125	Next Gen Devo-Evo. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2012 , 318, 519-20	1.8	3
124	Coming to Grips with Evolvability. <i>Evolution: Education and Outreach</i> , 2012 , 5, 231-244	1.6	14
123	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, 937-53	3.9	42
122	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, 239-47	8.3	77
121	Universal pleiotropy is not a valid null hypothesis: reply to Hill and Zhang. <i>Nature Reviews Genetics</i> , 2012 , 13, 296-296	30.1	12
120	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, 11246-51	11.5	53
119	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, 345-51	2.7	11
118	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	11.5	89
117	Measurement and meaning in biology. <i>Quarterly Review of Biology</i> , 2011 , 86, 3-34	5.4	178
116	Transposon-mediated rewiring of gene regulatory networks contributed to the evolution of pregnancy in mammals. <i>Nature Genetics</i> , 2011 , 43, 1154-9	36.3	294
115	Protein structural modularity and robustness are associated with evolvability. <i>Genome Biology and Evolution</i> , 2011 , 3, 456-75	3.9	27
114	Finding the frame shift: digit loss, developmental variability, and the origin of the avian hand. <i>Evolution & Development</i> , 2011 , 13, 269-79	2.6	30
113	The pleiotropic structure of the genotype-phenotype map: the evolvability of complex organisms. <i>Nature Reviews Genetics</i> , 2011 , 12, 204-13	30.1	422
112	Transcriptomic analysis of avian digits reveals conserved and derived digit identities in birds. <i>Nature</i> , 2011 , 477, 583-6	50.4	58
111	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, 165-70	1.8	22
110	Identity of the avian wing digits: problems resolved and unsolved. <i>Developmental Dynamics</i> , 2011 , 240, 1042-53	2.9	20
109	Evolution of adaptive phenotypic variation patterns by direct selection for evolvability. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011 , 278, 1903-12	4.4	71
108	Regulatory evolution through divergence of a phosphoswitch in the transcription factor CEBPB. <i>Nature</i> , 2011 , 480, 383-6	50.4	71

107	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	11.5	36
106	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, 207-16	3.8	69
105	The measurement theory of fitness. <i>Evolution; International Journal of Organic Evolution</i> , 2010 , 64, 1358-78	3.8	45
104	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. <i>Evolution; International Journal of Organic Evolution</i> , 2010 , 64, no-no	3.8	5
103	Ten years of genetics and genomics: what have we achieved and where are we heading?. <i>Nature Reviews Genetics</i> , 2010 , 11, 723-33	30.1	50
102	Development and the evolvability of human limbs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 3400-5	11.5	160
101	Evolutionary novelties. <i>Current Biology</i> , 2010 , 20, R48-52	6.3	165
100	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	3.7	66
99	Limusaurus and bird digit identity. <i>Nature Precedings</i> , 2009 ,		4
98	Measuring transcription factor-binding site turnover: a maximum likelihood approach using phylogenies. <i>Genome Biology and Evolution</i> , 2009 , 1, 85-98	3.9	14
97	Measuring Morphological Integration Using Eigenvalue Variance. <i>Evolutionary Biology</i> , 2009 , 36, 157-170,		134
96	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	3	7
95	Hypermutable HoxA13A 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, 1574-92	3.8	24
94	BIO. <i>Evolution & Development</i> , 2009 , 11, 139-141	2.6	
93	Frame-shifts of digit identity in bird evolution and Cyclopamine-treated wings. <i>Evolution & Development</i> , 2009 , 11, 163-9	2.6	30
92	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, 647-58	2.6	31
91	Pleiotropic scaling of gene effects and the 'cost of complexity'. <i>Nature</i> , 2008 , 452, 470-2	50.4	168
90	Wagner et al. reply. <i>Nature</i> , 2008 , 456, E4-E4	50.4	3

89	On the nature of thumbs. <i>Genome Biology</i> , 2008 , 9, 213	18.3	22
88	The gene regulatory logic of transcription factor evolution. <i>Trends in Ecology and Evolution</i> , 2008 , 23, 377-85	10.9	130
87	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, 14928-33	11.5	73
86	A simple model of co-evolutionary dynamics caused by epistatic selection. <i>Journal of Theoretical Biology</i> , 2008 , 250, 48-65	2.3	8
85	A molecular footprint of limb loss: sequence variation of the autopodial identity gene Hoxa-13. <i>Journal of Molecular Evolution</i> , 2008 , 67, 581-93	3.1	14
84	Resurrecting the role of transcription factor change in developmental evolution. <i>Evolution; International Journal of Organic Evolution</i> , 2008 , 62, 2131-54	3.8	142
83	The evolution of HoxD-11 expression in the bird wing: insights from Alligator mississippiensis. <i>PLoS ONE</i> , 2008 , 3, e3325	3.7	40
82	The developmental genetics of homology. <i>Nature Reviews Genetics</i> , 2007 , 8, 473-9	30.1	264
81	The road to modularity. <i>Nature Reviews Genetics</i> , 2007 , 8, 921-31	30.1	662
80	A stochastic model for the evolution of transcription factor binding site abundance. <i>Journal of Theoretical Biology</i> , 2007 , 247, 544-53	2.3	8
79	Tinkering with transcription factor proteins: the role of transcription factor adaptation in developmental evolution. <i>Novartis Foundation Symposium</i> , 2007 , 284, 116-25; discussion 125-9, 158-63		6
78	Evolutionary Genomics of Hox Gene Clusters 2007 , 68-90		1
77	Adaptive evolution of Hox-gene homeodomains after cluster duplications. <i>BMC Evolutionary Biology</i> , 2006 , 6, 86	3	29
76	Conceptual continuity as a mode of understanding complex systems: Applications to the dynamics sociopolitical systems. <i>Complexity</i> , 2006 , 11, 20-24	1.6	2
75	The "fish-specific" Hox cluster duplication is coincident with the origin of teleosts. <i>Molecular Biology and Evolution</i> , 2006 , 23, 121-36	8.3	156
74	EVOLUTION OF GENETIC ARCHITECTURE UNDER DIRECTIONAL SELECTION. <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 1523-1536	3.8	59
73	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	3.8	100
72	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, 1896-912	3.8	28

71	Sacrificing dialogue for politics?. <i>Science</i> , 2005 , 309, 1324	33.3	1
70	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	3.1	41
69	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, 186-95	2.6	54
68	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 , 304, 580-92	1.8	18
67	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, 665-76	3.1	31
66	The developmental evolution of avian digit homology: an update. <i>Theory in Biosciences</i> , 2005 , 124, 165-83	3.3	31
65	ECOLOGY: Mothers Driving Cycles. <i>Science</i> , 2005 , 309, 2001-2001	33.3	1
64	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, 2201-7	4.4	27
63	Divergence of conserved non-coding sequences: rate estimates and relative rate tests. <i>Molecular Biology and Evolution</i> , 2004 , 21, 2116-21	8.3	23
62	The population genetic theory of hidden variation and genetic robustness. <i>Genetics</i> , 2004 , 168, 2271-84	4	194
61	The shark HoxN cluster is homologous to the human HoxD cluster. <i>Journal of Molecular Evolution</i> , 2004 , 58, 212-7	3.1	19
60	Introduction to the papers of the 2001 kowalevsky medal winner symposium. <i>The Journal of Experimental Zoology</i> , 2004 , 302B, 1-4		6
59	Rupert Riedl and the re-synthesis of evolutionary and developmental biology: body plans and evolvability. <i>The Journal of Experimental Zoology</i> , 2004 , 302, 92-102		69
58	Surveying phylogenetic footprints in large gene clusters: applications to Hox cluster duplications. <i>Molecular Phylogenetics and Evolution</i> , 2004 , 31, 581-604	4.1	45
57	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, 686-94	4.1	70
56	Simon-Ando decomposability and fitness landscapes. <i>Theory in Biosciences</i> , 2004 , 123, 139-80	1.3	10
55	Bichir HoxA cluster sequence reveals surprising trends in ray-finned fish genomic evolution. <i>Genome Research</i> , 2004 , 14, 11-7	9.7	78
54	Epistasis in polygenic traits and the evolution of genetic architecture under stabilizing selection. <i>American Naturalist</i> , 2003 , 161, 708-34	3.7	99

53	Evolutionary genetics: the nature of hidden genetic variation unveiled. <i>Current Biology</i> , 2003 , 13, R958-60.3		9
52	What is the promise of developmental evolution? III. The crucible of developmental evolution. <i>The Journal of Experimental Zoology</i> , 2003 , 300, 1-4		21
51	Quasi-independence, homology and the unity of type: a topological theory of characters. <i>Journal of Theoretical Biology</i> , 2003 , 220, 505-27	2.3	53
50	What does it take to evolve behaviorally complex organisms?. <i>BioSystems</i> , 2003 , 69, 245-62	1.9	21
49	Pentadactyl ground state of the avian wing. <i>The Journal of Experimental Zoology</i> , 2002 , 294, 146-51		62
48	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; discussion 7-8	2.6	51
47	TO EPISTASIS AND BEYOND!1. <i>Evolution; International Journal of Organic Evolution</i> , 2002 , 56, 852-855	3.8	1
46	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, 5492-7	11.5	88
45	The tetrapod limb: a hypothesis on its origin. <i>The Journal of Experimental Zoology</i> , 2001 , 291, 226-40		70
44	The topology of the possible: formal spaces underlying patterns of evolutionary change. <i>Journal of Theoretical Biology</i> , 2001 , 213, 241-74	2.3	203
43	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	1.7	42
42	Modeling genetic architecture: a multilinear theory of gene interaction. <i>Theoretical Population Biology</i> , 2001 , 59, 61-86	1.2	161
41	The test distribution of modularity statistics: a correction and clarification. <i>Genetics</i> , 2001 , 158, 1381	4	1
40	Characters, Units and Natural Kinds: An Introduction 2001 , 1-10		33
39	Epistasis and the mutation load: a measurement-theoretical approach. <i>Genetics</i> , 2001 , 158, 477-85	4	44
38	Organism and Character Decomposition: Steps towards an Integrative Theory of Biology. <i>Philosophy of Science</i> , 2000 , 67, S289-S300	1.1	15
37	Canalization in evolutionary genetics: a stabilizing theory?. <i>BioEssays</i> , 2000 , 22, 372-80	4.1	262
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, 95-8		91

35	Population dependent Fourier decomposition of fitness landscapes over recombination spaces: evolvability of complex characters. <i>Bulletin of Mathematical Biology</i> , 2000 , 62, 399-428	2.1	30
34	Modeling the evolution of genetic architecture: A continuum of alleles model with pairwise AxA epistasis. <i>Journal of Theoretical Biology</i> , 2000 , 203, 163-75	2.3	18
33	Evolution of Hoxa-11 in lineages phylogenetically positioned along the fin-limb transition. <i>Molecular Phylogenetics and Evolution</i> , 2000 , 17, 305-16	4.1	22
32	Character identification in evolutionary biology: The role of the organism. <i>Theory in Biosciences</i> , 2000 , 119, 20-40	1.3	28
31	Developmental Evolution as a Mechanistic Science: The Inference from Developmental Mechanisms to Evolutionary Processes. <i>American Zoologist</i> , 2000 , 40, 819-831		4
30	Developmental Evolution as a Mechanistic Science: The Inference from Developmental Mechanisms to Evolutionary Processes1. <i>American Zoologist</i> , 2000 , 40, 819-831		128
29	Is the genotype-phenotype map modular? A statistical approach using mouse quantitative trait loci data. <i>Genetics</i> , 2000 , 156, 305-11	4	111
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