

# Scott F Gilbert

## List of Publications by Year in descending order

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Version: 2024-02-01

98  
papers

8,562  
citations

94433

37  
h-index

51608

86  
g-index

102  
all docs

102  
docs citations

102  
times ranked

7363  
citing authors

#	ARTICLE	IF	CITATIONS
1	Animals in a bacterial world, a new imperative for the life sciences. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3229-3236.	7.1	2,181
2	A Symbiotic View of Life: We Have Never Been Individuals. Quarterly Review of Biology, 2012, 87, 325-341.	0.1	744
3	Resynthesizing Evolutionary and Developmental Biology. Developmental Biology, 1996, 173, 357-372.	2.0	610
4	Ecological Developmental Biology: Developmental Biology Meets the Real World. Developmental Biology, 2001, 233, 1-12.	2.0	429
5	Getting the Hologenome Concept Right: an Eco-Evolutionary Framework for Hosts and Their Microbiomes. MSystems, 2016, 1, .	3.8	388
6	Anthropologists Are Talking â€œ About the Anthropocene. Ethnos, 2016, 81, 535-564.	1.7	302
7	Embracing complexity: Organicism for the 21st century. Developmental Dynamics, 2000, 219, 1-9.	1.8	291
8	Eco-Evo-Devo: developmental symbiosis and developmental plasticity as evolutionary agents. Nature Reviews Genetics, 2015, 16, 611-622.	16.3	281
9	Morphogenesis of the turtle shell: the development of a novel structure in tetrapod evolution. Evolution & Development, 2001, 3, 47-58.	2.0	246
10	Reptilian heart development and the molecular basis of cardiac chamber evolution. Nature, 2009, 461, 95-98.	27.8	135
11	Holobionts as Units of Selection and a Model of Their Population Dynamics and Evolution. Biological Theory, 2018, 13, 44-65.	1.5	134
12	Symbiosis as a source of selectable epigenetic variation: taking the heat for the big guy. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 671-678.	4.0	120
13	EvoDevo and niche construction: building bridges. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2008, 310B, 549-566.	1.3	116
14	Mechanisms for the environmental regulation of gene expression: Ecological aspects of animal development. Journal of Biosciences, 2005, 30, 65-74.	1.1	115
15	A holobiont birth narrative: the epigenetic transmission of the human microbiome. Frontiers in Genetics, 2014, 5, 282.	2.3	113
16	Evo-Devo, Devo-Evo, and Devgen-Popgen. Biology and Philosophy, 2003, 18, 347-352.	1.4	98
17	The embryological origins of the gene theory. Journal of the History of Biology, 1978, 11, 307-351.	0.5	94
18	Epigenetic landscaping: Waddington's use of cell fate bifurcation diagrams. Biology and Philosophy, 1991, 6, 135-154.	1.4	93

#	ARTICLE	IF	CITATIONS
19	The significance and scope of evolutionary developmental biology: a vision for the 21st century. <i>Evolution &amp; Development</i> , 2015, 17, 198-219.	2.0	92
20	How the turtle forms its shell: a paracrine hypothesis of carapace formation. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2005, 304B, 558-569.	1.3	87
21	The Genome in Its Ecological Context. <i>Annals of the New York Academy of Sciences</i> , 2002, 981, 202-218.	3.8	85
22	The morphogenesis of evolutionary developmental biology. <i>International Journal of Developmental Biology</i> , 2003, 47, 467-77.	0.6	83
23	Ecological developmental biology: environmental signals for normal animal development. <i>Evolution &amp; Development</i> , 2012, 14, 20-28.	2.0	77
24	Ecological developmental biology: preface to the symposium1. <i>Evolution &amp; Development</i> , 2003, 5, 3-8.	2.0	76
25	The origin and loss of periodic patterning in the turtle shell. <i>Development (Cambridge)</i> , 2014, 141, 3033-3039.	2.5	71
26	A neutralizing monoclonal antibody against poliovirus and its reaction with related antigens. <i>Virology</i> , 1981, 115, 211-215.	2.4	68
27	The Birth of the Holobiont: Multi-species Birthing Through Mutual Scaffolding and Niche Construction. <i>Biosemitotics</i> , 2015, 8, 191-210.	1.4	67
28	Development of an evolutionarily novel structure: Fibroblast growth factor expression in the carapacial ridge of turtle embryos. <i>The Journal of Experimental Zoology</i> , 2001, 291, 274-281.	1.4	62
29	The Importance of Feminist Critique for Contemporary Cell Biology. <i>Hypatia</i> , 1988, 3, 61-76.	0.6	55
30	Evidence that a late-emerging population of trunk neural crest cells forms the plastron bones in the turtle <i>Trachemys scripta</i> . <i>Evolution &amp; Development</i> , 2007, 9, 267-277.	2.0	54
31	Symbiosis as the way of eukaryotic life: The dependent co-origination of the body. <i>Journal of Biosciences</i> , 2014, 39, 201-209.	1.1	51
32	Townes and Holtfreter (1955): Directed movements and selective adhesion of embryonic amphibian cells. <i>The Journal of Experimental Zoology</i> , 2004, 301A, 701-706.	1.4	48
33	Bearing crosses: A historiography of genetics and embryology. <i>American Journal of Medical Genetics Part A</i> , 1998, 76, 168-182.	2.4	47
34	Induction and the Origins of Developmental Genetics. , 1991, 7, 181-206.		46
35	The contribution of neural crest cells to the nuchal bone and plastron of the turtle shell. <i>Integrative and Comparative Biology</i> , 2007, 47, 401-408.	2.0	46
36	Enzymatic Adaptation and the Entrance of Molecular Biology into Embryology. <i>Boston Studies in the Philosophy and History of Science</i> , 1996, , 101-123.	0.9	46

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37	Evidence for the neural crest origin of turtle plastron bones. <i>Genesis</i> , 2001, 31, 111-117.	1.6	44
38	Opening Darwin's black box: teaching evolution through developmental genetics. <i>Nature Reviews Genetics</i> , 2003, 4, 735-741.	16.3	43
39	Rethinking individuality: the dialectics of the holobiont. <i>Biology and Philosophy</i> , 2016, 31, 839-853.	1.4	43
40	Late-emigrating trunk neural crest cells in turtle embryos generate an osteogenic ectomesenchyme in the plastron. <i>Developmental Dynamics</i> , 2013, 242, 1223-1235.	1.8	39
41	Development of the turtle plastron, the order-defining skeletal structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5317-5322.	7.1	38
42	Niche construction and the transition to herbivory: Phenotype switching and the organization of new nutritional modes. , 2020, , 459-482.		37
43	10. Cellular Politics: Ernest Everett Just, Richard Î. Goldschmidt, and the Attempt to Reconcile Embryology and Genetics. , 1988, , 311-346.		36
44	Alternative Promoter Use Governs the Expression of IgLON Cell Adhesion Molecules in Histogenetic Fields of the Embryonic Mouse Brain. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6955.	4.1	33
45	Dobzhansky, Waddington, and Schmalhausen: Embryology and the Modern Synthesis. , 1994, , 143-154.		32
46	Ageing and cancer as diseases of epigenesis. <i>Journal of Biosciences</i> , 2009, 34, 601-604.	1.1	29
47	Developmental Plasticity and Developmental Symbiosis: The Return of Eco-Devo. <i>Current Topics in Developmental Biology</i> , 2016, 116, 415-433.	2.2	29
48	Commentary: "The Epigenotype"™ by C.H. Waddington. <i>International Journal of Epidemiology</i> , 2012, 41, 20-23.	1.9	24
49	The Generation of Novelty: The Province of Developmental Biology. <i>Biological Theory</i> , 2006, 1, 209-212.	1.5	22
50	Emerging from the rib: Resolving the turtle controversies. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2015, 324, 208-220.	1.3	22
51	Patterning of the turtle shell. <i>Current Opinion in Genetics and Development</i> , 2017, 45, 124-131.	3.3	22
52	Developmental biology, the stem cell of biological disciplines. <i>PLoS Biology</i> , 2017, 15, e2003691.	5.6	21
53	Developmental symbiosis facilitates the multiple origins of herbivory. <i>Evolution &amp; Development</i> , 2020, 22, 154-164.	2.0	21
54	Toward a Symbiotic Perspective on Public Health: Recognizing the Ambivalence of Microbes in the Anthropocene. <i>Microorganisms</i> , 2020, 8, 746.	3.6	21

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55	The combined impact of IgLON family proteins Lsamp and Neurotrimin on developing neurons and behavioral profiles in mouse. <i>Brain Research Bulletin</i> , 2018, 140, 5-18.	3.0	20
56	Intellectual Traditions in the Life Sciences. II. Stereocomplementarity. <i>Perspectives in Biology and Medicine</i> , 1984, 28, 18-34.	0.5	19
57	The Embryonic Transcriptome of the Red-Eared Slider Turtle ( <i>Trachemys scripta</i> ). <i>PLoS ONE</i> , 2013, 8, e66357.	2.5	19
58	Looking at Embryos: The Visual and Conceptual Aesthetics of Emerging Form. <i>Boston Studies in the Philosophy and History of Science</i> , 1996, , 125-151.	0.9	19
59	Evolutionary transitions revisited: Holobiont evoâ€devo. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2019, 332, 307-314.	1.3	17
60	Congenital human baculum deficiency: The generative bone of Genesis 2:21-23. <i>American Journal of Medical Genetics Part A</i> , 2001, 101, 284-285.	2.4	16
61	Conceptual breakthroughs in developmental biology. <i>Journal of Biosciences</i> , 1998, 23, 169-176.	1.1	14
62	Developmental field theory and the molecular analysis of morphogenesis: A comment on Dr. Slavkin's observations. <i>American Journal of Medical Genetics Part A</i> , 1993, 47, 687-688.	2.4	11
63	When â€personhoodâ€ begins in the embryo: Avoiding a Syllabus of Errors. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2008, 84, 164-173.	3.6	11
64	Turtles all the way down: loggerheads at the root of the chelonian tree. <i>Evolution &amp; Development</i> , 2009, 11, 133-135.	2.0	11
65	Cells in search of community: Critiques of Weismannism and selectable units in ontogeny. <i>Biology and Philosophy</i> , 1992, 7, 473-487.	1.4	9
66	Turtle Origins: Picking Up Speed. <i>Developmental Cell</i> , 2013, 25, 326-328.	7.0	9
67	Evolutionary developmental biology and sustainability: A biology of resilience. <i>Evolution &amp; Development</i> , 2021, 23, 273-291.	2.0	9
68	Expanding the Temporal Dimensions of Developmental Biology: The Role of Environmental Agents in Establishing Adult-Onset Phenotypes. <i>Biological Theory</i> , 2011, 6, 65-72.	1.5	7
69	Ecological Developmental Biology: Interpreting Developmental Signs. <i>Biosemiotics</i> , 2016, 9, 51-60.	1.4	7
70	Symbionts as an Epigenetic Source of Heritable Variation. , 2011, , 283-294.		7
71	Ecological Developmental Biology: Developmental Biology Meets the Real World1. <i>Russian Journal of Developmental Biology</i> , 2004, 35, 346-357.	0.5	6
72	Mechanisms for the environmental regulation of gene expression. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2004, 72, 291-299.	3.6	6

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73	Melanoblast development coincides with the late emerging cells from the dorsal neural tube in turtle <i>Trachemys scripta</i> . <i>Scientific Reports</i> , 2017, 7, 12063.	3.3	6
74	Formalizing theories of development: a fugue on the orderliness of change. , 2014, , 129-143.		6
75	Educating for social responsibility: changing the syllabus of developmental biology. <i>International Journal of Developmental Biology</i> , 2003, 47, 237-44.	0.6	6
76	Cytoplasmic Action in DevelopmentCytoplasmic Organization Systems.George M. Malacinski. <i>Quarterly Review of Biology</i> , 1991, 66, 309-316.	0.1	5
77	Song: The histone song (to the tune of 'œflintstones'œ). <i>Biochemistry and Molecular Biology Education</i> , 2006, 34, 111-111.	1.2	5
78	Systemic racism, systemic sexism, and the embryological enterprise. <i>Developmental Biology</i> , 2021, 473, 97-104.	2.0	5
79	New vistas for developmental biology. <i>Journal of Biosciences</i> , 2001, 26, 293-298.	1.1	4
80	Wfs1 is expressed in dopaminoceptive regions of the amniote brain and modulates levels of D1-like receptors. <i>PLoS ONE</i> , 2017, 12, e0172825.	2.5	4
81	'Show me your original face before you were born': the convergence of public fetuses and sacred DNA. <i>History and Philosophy of the Life Sciences</i> , 2004, 26, 377-94.	1.1	4
82	Resurrecting the Body: Has Postmodernism Had Any Effect on Biology?. <i>Science in Context</i> , 1995, 8, 563-577.	0.4	3
83	American precursors of evo-devo: ecology, cell lineage, and pastimes unworthy of the Deity. <i>Theory in Biosciences</i> , 2008, 127, 291-296.	1.4	3
84	All I Really Needed to Know I Learned during Gastrulation. <i>CBE Life Sciences Education</i> , 2008, 7, 12-13.	2.3	3
85	BIO. <i>Evolution &amp; Development</i> , 2009, 11, 331-332.	2.0	3
86	Symbiosis of disciplines: how can developmental biologists join conservationists in sustaining and restoring earth's biodiversity?. <i>Development (Cambridge)</i> , 2022, 149, .	2.5	3
87	Altruism and Other Unnatural Acts: T. H. Huxley on Nature, Man, and Society. <i>Perspectives in Biology and Medicine</i> , 1979, 22, 346-358.	0.5	2
88	How the Turtle Gets Its Shell. , 2007, , 1-16.		2
89	Ecological developmental biology: Redefining the spatial limits of development. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2011, 93, 1-2.	3.6	2
90	Achilles and the tortoise: Some caveats to mathematical modeling in biology. <i>Progress in Biophysics and Molecular Biology</i> , 2018, 137, 37-45.	2.9	2

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91	John Tyler Bonner: Remembering a scientific pioneer. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2019, 332, 365-370.	1.3	2
92	Michael Ruse "Bare-Knuckle Fighting: EvoDevo versus Natural Selection ( <i>Biological Theory</i> 1: 402-403), <i>Tj ETQq 0 0 0 rgBT /Overlock</i>	1.5	1
93	Preface. <i>Current Topics in Developmental Biology</i> , 2021, 141, xiii-xxiii.	2.2	1
94	Embracing complexity: Organicism for the 21st century. , 0, .		1
95	Song: The genome song (to the tune of "it's a small world"). <i>Biochemistry and Molecular Biology Education</i> , 2006, 34, 112-112.	1.2	0
96	Song: The plasmid song (to the tune of "will the circle be unbroken"). <i>Biochemistry and Molecular Biology Education</i> , 2006, 34, 204-204.	1.2	0
97	Song: The mRNA song (to the tune of "YMCA"). <i>Biochemistry and Molecular Biology Education</i> , 2006, 34, 205-205.	1.2	0
98	Trunk Neural Crest Cells Form an Ectomesenchymal Dermis in the Turtle Plastron. <i>FASEB Journal</i> , 2011, 25, 482.5.	0.5	0