

Brian K Hall

List of Publications by Year in descending order

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135
papers

9,100
citations

47004

47
h-index

51602

86
g-index

146
all docs

146
docs citations

146
times ranked

6921
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence of proteins, chromosomes and chemical markers of DNA in exceptionally preserved dinosaur cartilage. <i>National Science Review</i> , 2020, 7, 815-822.	9.5	27
2	Extraocular, rod-like photoreceptors in a flatworm express xenopsin photopigment. <i>ELife</i> , 2019, 8, .	6.0	27
3	Germ layers, the neural crest and emergent organization in development and evolution. <i>Genesis</i> , 2018, 56, e23103.	1.6	28
4	Plasticity and Variation of Skeletal Cells and Tissues and the Evolutionary Development of Actinopterygian Fishes. , 2018, , 126-143.		6
5	Calcified cartilage or bone? Collagens in the tessellated endoskeletons of cartilaginous fish (sharks) Tj ETQq1 1 0.784314 rgBT/Overlo	2.8	38
6	A shared role for sonic hedgehog signalling in patterning chondrichthyan gill arch appendages and tetrapod limbs. <i>Development (Cambridge)</i> , 2016, 143, 1313-1317.	2.5	30
7	Synergistic activity of polarised osteoblasts inside condensations cause their differentiation. <i>Scientific Reports</i> , 2015, 5, 11838.	3.3	16
8	Teleost Skeletal Plasticity: Modulation, Adaptation, and Remodelling. <i>Copeia</i> , 2015, 103, 727-739.	1.3	53
9	The significance and scope of evolutionary developmental biology: a vision for the 21st century. <i>Evolution & Development</i> , 2015, 17, 198-219.	2.0	92
10	Spatiotemporal transcriptomics reveals the evolutionary history of the endoderm germ layer. <i>Nature</i> , 2015, 519, 219-222.	27.8	160
11	Summarizing craniofacial genetics and developmental biology (SCGDB). <i>American Journal of Medical Genetics, Part A</i> , 2014, 164, 884-891.	1.2	5
12	Endoskeleton/Exo (dermal) skeleton - Mesoderm/Neural Crest: Two pair of problems and a shifting paradigm. <i>Journal of Applied Ichthyology</i> , 2014, 30, 608-615.	0.7	19
13	Homology, homoplasy, novelty, and behavior. <i>Developmental Psychobiology</i> , 2013, 55, 4-12.	1.6	26
14	Cleft lip, nose, and palate: the nasal septum as the pacemaker for midfacial growth. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2013, 115, 442-447.	0.4	53
15	Incremental evolution of the neural crest, neural crest cells and neural crest-derived skeletal tissues. <i>Journal of Anatomy</i> , 2013, 222, 19-31.	1.5	49
16	Approaching the H _o ly G _r ail: development variation and adult morphology. <i>Evolution & Development</i> , 2012, 14, 229-230.	2.0	2
17	Levels of Biological Organization and the Origin of Novelty. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2012, 318, 428-437.	1.3	57
18	Evolutionary Developmental Biology (Evo-Devo): Past, Present, and Future. <i>Evolution: Education and Outreach</i> , 2012, 5, 184-193.	0.8	53

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19	Parallelism, deep homology, and evo-devo. <i>Evolution & Development</i> , 2012, 14, 29-33.	2.0	20
20	A Unified Anatomy Ontology of the Vertebrate Skeletal System. <i>PLoS ONE</i> , 2012, 7, e51070.	2.5	40
21	Ontogeny does not recapitulate phylogeny, it creates phylogeny: a review of <i>The Tragic Sense of Life: Ernst Haeckel and the Struggle over Evolutionary Thought</i> , by Robert J. Richards. <i>Evolution & Development</i> , 2011, 13, 401-404.	2.0	3
22	Atavisms. <i>Current Biology</i> , 2010, 20, R871.	3.9	10
23	HSP90 expression in two migratory cell types during ascidian development: test cells deposit HSP90 on the larval tunic. <i>International Journal of Developmental Biology</i> , 2010, 54, 1337-1346.	0.6	5
24	Embryos in evolution: evo-devo at the Naples Zoological Station in 1874. <i>Theory in Biosciences</i> , 2009, 128, 7-18.	1.4	1
25	Effects of hind limb denervation on the development of appendicular ossicles in the Dwarf African Clawed Frog, <i>Hymenochirus boettgeri</i> (Anura: Pipidae). <i>Acta Zoologica</i> , 2009, 90, 352-358.	0.8	12
26	A review of <i>Frozen Evolution: Or That's Not the Way It is, Mr. Darwin</i> , edited by Jaroslav Flegr. <i>Evolution & Development</i> , 2009, 11, 126-129.	2.0	0
27	Cartilage differentiation in cephalopod molluscs. <i>Zoology</i> , 2009, 112, 2-15.	1.2	21
28	Evolutionary Origins. , 2009, , 117-155.		1
29	Teleost eyes: The role of the developing lens in skeletal development. <i>FASEB Journal</i> , 2009, 23, 646.5.	0.5	0
30	From Marshalling Yards to Landscapes to Triangles to Morphospace. <i>Evolutionary Biology</i> , 2008, 35, 97-99.	1.1	7
31	Evolutionary Origins of the Neural Crest and Neural Crest Cells. <i>Evolutionary Biology</i> , 2008, 35, 248-266.	1.1	4
32	The neural crest and neural crest cells: discovery and significance for theories of embryonic organization. <i>Journal of Biosciences</i> , 2008, 33, 781-793.	1.1	79
33	Vertebrate origins: riding the crest of a new wave, or the wave of a new crest?. <i>Evolution & Development</i> , 2008, 10, 261-262.	2.0	4
34	Conrad H. Waddington: Towards a Theoretical Biology. <i>Biological Theory</i> , 2008, 3, 233-237.	1.5	7
35	EvoDevo Concepts in the Work of Waddington. <i>Biological Theory</i> , 2008, 3, 198-203.	1.5	2
36	Conrad Hal Waddington: Forefather of Theoretical EvoDevo. <i>Biological Theory</i> , 2008, 3, 185-187.	1.5	10

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37	Embryonic heat shock reveals latent hsp90 translation in zebrafish (<i>Danio rerio</i>). <i>International Journal of Developmental Biology</i> , 2008, 52, 71-79.	0.6	38
38	Collectivity in Context: Modularity, Cell Sociology, and the Neural Crest. <i>Biological Theory</i> , 2007, 2, 349-359.	1.5	4
39	HOMOLOGY AND HOMOPLASY. , 2007, , 429-453.		9
40	Establishment, maintenance and modifications of the lower jaw dentition of wild Atlantic salmon (<i>Salmo salar</i> L.) throughout its life cycle. <i>Journal of Anatomy</i> , 2007, 211, 471-484.	1.5	14
41	Homoplasy and homology: Dichotomy or continuum?. <i>Journal of Human Evolution</i> , 2007, 52, 473-479.	2.6	122
42	Human cell type diversity, evolution, development, and classification with special reference to cells derived from the neural crest. <i>Biological Reviews</i> , 2006, 81, 425.	10.4	214
43	A review of <i>The Fetal Matrix: Evolution, Development and Disease</i> , by Peter Gluckman and Mark Hanson. <i>Evolution & Development</i> , 2006, 8, 320-321.	2.0	0
44	Modularity and sense organs in the blind cavefish, <i>Astyanax mexicanus</i> . <i>Evolution & Development</i> , 2006, 8, 94-100.	2.0	57
45	Review Article "A System for Analysing Features in Studies Integrating Ecology, Development, and Evolution. <i>Biology and Philosophy</i> , 2006, 21, 25-40.	1.4	1
46	Buried alive: How osteoblasts become osteocytes. <i>Developmental Dynamics</i> , 2006, 235, 176-190.	1.8	601
47	"Evolutionist and Missionary," The Reverend John Thomas Gulick (1832-1923). Part I: cumulative segregation"geographical isolation. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2006, 306B, 407-418.	1.3	3
48	"Evolutionist and Missionary," the Reverend John Thomas Gulick (1832-1923). Part II: coincident or ontogenetic selection"the Baldwin effect. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2006, 306B, 489-495.	1.3	2
49	More than skin deep: embryonic heat shock increases pigment and skeletal variation in zebrafish, <i>Danio rerio</i> . <i>FASEB Journal</i> , 2006, 20, A869.	0.5	0
50	TRIBUTE: In Goethe's Wake: Marvalee Wake's conceptual contributions to the development and evolution of a science of morphology. <i>Zoology</i> , 2005, 108, 269-275.	1.2	2
51	Are breeding teeth in Atlantic salmon a component of the drastic alterations of the oral facial skeleton?. <i>Archives of Oral Biology</i> , 2005, 50, 213-217.	1.8	21
52	Betrayed by <i>Balanoglossus</i> : William Bateson's rejection of evolutionary embryology as the basis for understanding evolution. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2005, 304B, 1-17.	1.3	20
53	Fifty years later: I. Michael Lerner's <i>Genetic Homeostasis</i> (1954)"a valiant attempt to integrate genes, organisms and environment. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2005, 304B, 187-197.	1.3	17
54	Consideration of the neural crest and its skeletal derivatives in the context of novelty/innovation. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2005, 304B, 548-557.	1.3	31

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55	The Study of Phenotypic Variability. , 2005, , 525-551.		12
56	Latent homologues for the neural crest as an evolutionary novelty. <i>Evolution & Development</i> , 2004, 6, 123-129.	2.0	52
57	Cartilage is a metazoan tissue; integrating data from nonvertebrate sources. <i>Acta Zoologica</i> , 2004, 85, 69-80.	0.8	45
58	In search of evolutionary developmental mechanisms: The 30-year gap between 1944 and 1974. <i>The Journal of Experimental Zoology</i> , 2004, 302B, 5-18.	1.4	13
59	The nature and significance of invertebrate cartilages revisited: distribution and histology of cartilage and cartilage-like tissues within the Metazoa. <i>Zoology</i> , 2004, 107, 261-273.	1.2	99
60	Unlocking the Black Box between Genotype and Phenotype: Cell Condensations as Morphogenetic (modular) Units. <i>Biology and Philosophy</i> , 2003, 18, 219-247.	1.4	88
61	The emergence of form: The shape of things to come. <i>Developmental Dynamics</i> , 2003, 228, 292-298.	1.8	6
62	Embryological origins of developmental stability: Size, shape and fluctuating asymmetry in prenatal random bred mice. , 2003, 296B, 40-57.		38
63	Francis Maitland Balfour (1851-1882): A founder of evolutionary embryology. <i>The Journal of Experimental Zoology</i> , 2003, 299B, 3-8.	1.4	8
64	Descent with modification: the unity underlying homology and homoplasy as seen through an analysis of development and evolution. <i>Biological Reviews</i> , 2003, 78, 409-433.	10.4	272
65	Seasonal changes in the lower jaw skeleton in male Atlantic salmon (<i>Salmo salar</i> L.): remodelling and regression of the kype after spawning. <i>Journal of Anatomy</i> , 2003, 203, 435-450.	1.5	111
66	Secondary chondrocyte-derived Ihh stimulates proliferation of periosteal cells during chick development. <i>Development (Cambridge)</i> , 2003, 130, 4729-4739.	2.5	40
67	Evo-Devo: evolutionary developmental mechanisms. <i>International Journal of Developmental Biology</i> , 2003, 47, 491-5.	0.6	99
68	Canalization, developmental stability, and morphological integration in primate limbs. <i>American Journal of Physical Anthropology</i> , 2002, 119, 131-158.	2.1	316
69	Limbs in whales and limblessness in other vertebrates: mechanisms of evolutionary and developmental transformation and loss. <i>Evolution & Development</i> , 2002, 4, 445-458.	2.0	121
70	Palaeontology and Evolutionary Developmental Biology: A Science of the Nineteenth and Twenty-first Centuries. <i>Palaeontology</i> , 2002, 45, 647-669.	2.2	65
71	Differentiation and growth of kype skeletal tissues in anadromous male Atlantic salmon (<i>Salmo</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 0.6 57	0.6	57
72	John Samuel Budgett (1872â€“1904): In Pursuit of Polypterus. <i>BioScience</i> , 2001, 51, 399.	4.9	13

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73	A review of first signals: the evolution of multicellular development. <i>Evolution & Development</i> , 2001, 3, 223-224.	2.0	1
74	The gene is not dead, merely orphaned and seeking a home. <i>Evolution & Development</i> , 2001, 3, 225-228.	2.0	28
75	A review of Images of development: environmental causes in ontogeny by Cor van der Weele. <i>Evolution & Development</i> , 2001, 3, 366-368.	2.0	1
76	Altered timing of the extracellular-matrix-mediated epithelial-mesenchymal interaction that initiates mandibular skeletogenesis in three inbred strains of mice: Development, heterochrony, and evolutionary change in morphology. <i>The Journal of Experimental Zoology</i> , 2001, 291, 258-273.	1.4	25
77	Features of mono- and multinucleated bone resorbing cells of the zebrafish <i>Danio rerio</i> and their contribution to skeletal development, remodeling, and growth. <i>Journal of Morphology</i> , 2001, 250, 197-207.	1.2	162
78	Development of the clavicles in birds and mammals. <i>The Journal of Experimental Zoology</i> , 2001, 289, 153-161.	1.4	57
79	Bridging the gap between developmental systems theory and evolutionary developmental biology. <i>BioEssays</i> , 2001, 23, 954-962.	2.5	113
80	Organic Selection: Proximate Environmental Effects on the Evolution of Morphology and Behaviour. <i>Biology and Philosophy</i> , 2001, 16, 215-237.	1.4	69
81	Altered timing of the extracellular-matrix-mediated epithelial-mesenchymal interaction that initiates mandibular skeletogenesis in three inbred strains of mice: Development, heterochrony, and evolutionary change in morphology. <i>The Journal of Experimental Zoology</i> , 2001, 291, 258-273.	1.4	13
82	Features of mono- and multinucleated bone resorbing cells of the zebrafish <i>Danio rerio</i> and their contribution to skeletal development, remodeling, and growth. <i>Journal of Morphology</i> , 2001, 250, 197-207.	1.2	7
83	All for one and one for all: condensations and the initiation of skeletal development. <i>BioEssays</i> , 2000, 22, 138-147.	2.5	790
84	Guest Editorial: Evo-devo or devo-evo? does it matter?. <i>Evolution & Development</i> , 2000, 2, 177-178.	2.0	122
85	The neural crest as a fourth germ layer and vertebrates as quadroblastic not triploblastic. <i>Evolution & Development</i> , 2000, 2, 3-5.	2.0	166
86	Balfour, Garstang and de Beer: The First Century of Evolutionary Embryology. <i>American Zoologist</i> , 2000, 40, 718-728.	0.7	19
87	A Role for Epithelial-Mesenchymal Interactions in Tail Growth/Morphogenesis and Chondrogenesis in Embryonic Mice. <i>Cells Tissues Organs</i> , 2000, 166, 6-14.	2.3	19
88	Balfour, Garstang and de Beer: The First Century of Evolutionary Embryology. <i>American Zoologist</i> , 2000, 40, 718-728.	0.7	42
89	All for one and one for all: condensations and the initiation of skeletal development. , 2000, 22, 138.		1
90	The paradoxical platypus. <i>BioScience</i> , 1999, 49, 211-218.	4.9	24

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91	Introduction to the Symposium: Developmental and Evolutionary Perspectives on Major Transformations in Body Organization. <i>American Zoologist</i> , 1999, 39, 612-616.	0.7	11
92	Development of dermal denticles in skates (Chondrichthyes, Batoidea): Patterning and cellular differentiation. <i>Journal of Morphology</i> , 1999, 241, 61-81.	1.2	44
93	Evolutionary Developmental Biology. , 1999, , .		316
94	The Neural Crest in Development and Evolution. , 1999, , .		209
95	Neural Crest Potential for Tooth Development in a Urodele Amphibian: Developmental and Evolutionary Significance. <i>Developmental Biology</i> , 1997, 188, 34-42.	2.0	54
96	Chondrogenic cell differentiation from membrane bone periosteum. <i>Anatomy and Embryology</i> , 1997, 196, 349-362.	1.5	83
97	Neural ectoderm, neural crest, and placodes: Contribution of the otic placode to the ectodermal lining of the embryonic opercular cavity in Atlantic cod (Teleostei). , 1997, 231, 231-252.		19
98	Ontogeny of feeding and respiration in larval Atlantic cod <i>Gadus morhua</i> (Teleostei, Gadiformes): I. <i>Morphology</i> . , 1996, 227, 15-35.		71
99	Ontogeny of feeding and respiration in larval Atlantic cod <i>Gadus morhua</i> (Teleostei, Gadiformes): II. <i>Function</i> . , 1996, 227, 37-50.		25
100	Atavisms and atavistic mutations. <i>Nature Genetics</i> , 1995, 10, 126-127.	21.4	52
101	Development of in vitro organ culture techniques for differentiation and growth of cartilages and bones from teleost fish and comparisons with in vivo skeletal development. <i>The Journal of Experimental Zoology</i> , 1994, 268, 22-43.	1.4	22
102	Evidence for a developmental and evolutionary link between placodal ectoderm and neural crest. <i>The Journal of Experimental Zoology</i> , 1994, 270, 292-301.	1.4	18
103	Calcification of Cartilage from the Lamprey <i>Petromyzon marinus</i> (L.) <i>in vitro</i> . <i>Acta Zoologica</i> , 1993, 74, 31-41.	0.8	29
104	A Developmental Model for Evolution of the Vertebrate Exoskeleton and Teeth. , 1993, , 387-448.		95
105	Waddington's Legacy in Development and Evolution. <i>American Zoologist</i> , 1992, 32, 113-122.	0.7	59
106	Evolutionary Developmental Biology. , 1992, , .		245
107	Development and morphology of rostral cartilages in batoid fishes (Chondrichthyes: Batoidea), with comments on homology within vertebrates. <i>Biological Journal of the Linnean Society</i> , 1992, 46, 259-298.	1.6	32
108	Edgeworth's legacy of cranial muscle development with an analysis of muscles in the ventral gill arch region of batoid fishes (Chondrichthyes: Batoidea). <i>Journal of Morphology</i> , 1992, 212, 213-256.	1.2	66

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109	A MODEL FOR DEVELOPMENT AND EVOLUTION OF COMPLEX MORPHOLOGICAL STRUCTURES. <i>Biological Reviews</i> , 1991, 66, 101-157.	10.4	523
110	Toward an understanding of the epithelial requirement for osteogenesis in scleral mesenchyme of the embryonic chick. <i>The Journal of Experimental Zoology</i> , 1991, 259, 92-108.	1.4	28
111	DEVELOPMENT AND EVOLUTIONARY ORIGINS OF VERTEBRATE SKELETOGENIC AND ODONTOGENIC TISSUES. <i>Biological Reviews</i> , 1990, 65, 277-373.	10.4	300
112	Paralysis and growth of the musculoskeletal system in the embryonic chick. <i>Journal of Morphology</i> , 1990, 206, 45-56.	1.2	213
113	Genetic and Epigenetic Control of Vertebrate Embryonic Development. <i>Animal Biology</i> , 1989, 40, 352-361.	0.4	15
114	DEVELOPMENTAL PROCESSES, DEVELOPMENTAL SEQUENCES AND EARLY VERTEBRATE PHYLOGENY. <i>Biological Reviews</i> , 1989, 64, 73-91.	10.4	54
115	Ultrastructure of the osteogenesis of acellular vertebral bone in the Japanese medaka, <i>Oryzias latipes</i> (teleostei, cyprinodontidae). <i>American Journal of Anatomy</i> , 1988, 182, 241-249.	1.0	65
116	Skull development during anuran metamorphosis: I. Early development of the first three bones to form?the exoccipital, the parasphenoid, and the frontoparietal. <i>Journal of Morphology</i> , 1988, 195, 247-256.	1.2	69
117	Development of the head skeleton of the Japanese medaka, <i>Oryzias latipes</i> (Teleostei). <i>Journal of Morphology</i> , 1987, 193, 135-158.	1.2	96
118	The development of acellularity of the vertebral bone of the Japanese medaka, <i>Oryzias latipes</i> (Teleostei; Cyprinodontidae). <i>Journal of Morphology</i> , 1987, 193, 253-261.	1.2	58
119	Repair of fractured lower jaws in the spotted salamander: Do amphibians form secondary cartilage?. <i>The Journal of Experimental Zoology</i> , 1985, 233, 359-368.	1.4	21
120	Variation and timing of the cranial ossification sequence of the oriental fire-bellied toad, <i>Bombina orientalis</i> (Amphibia, Discoglossidae). <i>Journal of Morphology</i> , 1984, 182, 245-255.	1.2	84
121	Developmental processes underlying heterochrony as an evolutionary mechanism. <i>Canadian Journal of Zoology</i> , 1984, 62, 1-7.	1.0	116
122	DEVELOPMENTAL MECHANISMS UNDERLYING THE FORMATION OF ATAVISMS. <i>Biological Reviews</i> , 1984, 59, 89-122.	10.4	125
123	Bone in the cartilaginous fishes. <i>Nature</i> , 1982, 298, 324-324.	27.8	6
124	Tissue interactions and the initiation of osteogenesis and chondrogenesis in the neural crest-derived mandibular skeleton of the embryonic mouse as seen in isolated murine tissues and in recombinations of murine and avian tissues. <i>Development (Cambridge)</i> , 1980, 58, 251-264.	2.5	32
125	Ability of neural crest cells from the embryonic chick to differentiate into cartilage before their migration away from the neural tube. <i>The Anatomical Record</i> , 1979, 194, 469-475.	1.8	45
126	Lack of association between avian cartilages of different embryological origins when maintained in vitro. <i>American Journal of Anatomy</i> , 1979, 154, 485-495.	1.0	11

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127	The timing of the onset of osteogenesis in the tibia of the embryonic chick. <i>Journal of Morphology</i> , 1979, 162, 453-463.	1.2	47
128	Grafting of organs and tissues to the chorioallantoic membrane of the embryonic chick. <i>Tissue Culture Association Manual</i> , 1978, 4, 881-884.	0.3	26
129	Use of the L-proline analog, L-azetidine-2-carboxylic acid (LACA) to analyse embryonic growth and determination and expression of the chondrogenic phenotype in vivo and in vitro. <i>The Anatomical Record</i> , 1978, 190, 243-255.	1.8	5
130	Thallium-induced achondroplasia in chicken embryos and the concept of critical periods during development. <i>Teratology</i> , 1977, 15, 1-15.	1.6	26
131	Epithelial influences on skeletogenesis in the mandible of the embryonic chick. <i>The Anatomical Record</i> , 1977, 188, 229-239.	1.8	113
132	A simple, single-injection method for inducing long-term paralysis in embryonic chicks, and preliminary observations on growth of the tibia. <i>The Anatomical Record</i> , 1975, 181, 767-777.	1.8	31
133	The origin and fate of osteoclasts. <i>The Anatomical Record</i> , 1975, 183, 1-11.	1.8	61
134	Evolutionary Consequences of Skeletal Differentiation. <i>American Zoologist</i> , 1975, 15, 329-350.	0.7	79
135	Isozymes of lactate dehydrogenase (LDH) in skeletal tissues of the embryonic and newly hatched chick. <i>Development (Cambridge)</i> , 1974, 31, 169-181.	2.5	5