## Brian K Hall

List of Publications by Year in descending order

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

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19	Parallelism, deep homology, and evoâ€devo. Evolution & Development, 2012, 14, 29-33.	2.0	20
20	A Unified Anatomy Ontology of the Vertebrate Skeletal System. PLoS ONE, 2012, 7, e51070.	2.5	40
21	Ontogeny does not recapitulate phylogeny, it creates phylogeny: a review of The Tragic Sense of Life: Ernst Haeckel and the Struggle over Evolutionary Thought, by Robert J. Richards. Evolution & Development, 2011, 13, 401-404.	2.0	3
22	Atavisms. Current Biology, 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. International Journal of Developmental Biology, 2010, 54, 1337-1346.	0.6	5
24	Embryos in evolution: evo-devo at the Naples Zoological Station in 1874. Theory in Biosciences, 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). Acta Zoologica, 2009, 90, 352-358.	0.8	12
26	A review ofFrozen Evolution: Or That's Not the Way It is, Mr. Darwin, edited by Jaroslav Flegr. Evolution & Development, 2009, 11, 126-129.	2.0	0
27	Cartilage differentiation in cephalopod molluscs. Zoology, 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. FASEB Journal, 2009, 23, 646.5.	0.5	0
30	From Marshalling Yards to Landscapes to Triangles to Morphospace. Evolutionary Biology, 2008, 35, 97-99.	1.1	7
31	Evolutionary Origins of the Neural Crest and Neural Crest Cells. Evolutionary Biology, 2008, 35, 248-266.	1.1	4
32	The neural crest and neural crest cells: discovery and significance for theories of embryonic organization. Journal of Biosciences, 2008, 33, 781-793.	1.1	79
33	Vertebrate origins: riding the crest of a new wave, or the wave of a new crest?. Evolution & Development, 2008, 10, 261-262.	2.0	4
34	Conrad H. Waddington: Towards a Theoretical Biology. Biological Theory, 2008, 3, 233-237.	1.5	7
35	EvoDevo Concepts in the Work of Waddington. Biological Theory, 2008, 3, 198-203.	1.5	2
36	Conrad Hal Waddington: Forefather of Theoretical EvoDevo. Biological Theory, 2008, 3, 185-187.	1.5	10

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37	Embryonic heat shock reveals latent hsp90 translation in zebrafish (Danio rerio). International Journal of Developmental Biology, 2008, 52, 71-79.	0.6	38
38	Collectivity in Context: Modularity, Cell Sociology, and the Neural Crest. Biological Theory, 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. Journal of Anatomy, 2007, 211, 471-484.	1.5	14
41	Homoplasy and homology: Dichotomy or continuum?. Journal of Human Evolution, 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. Biological Reviews, 2006, 81, 425.	10.4	214
43	A review of The Fetal Matrix: Evolution, Development and Disease, by Peter Gluckman and Mark Hanson. Evolution & Development, 2006, 8, 320-321.	2.0	0
44	Modularity and sense organs in the blind cavefish, Astyanax mexicanus. Evolution & Development, 2006, 8, 94-100.	2.0	57
45	Review Article – A System for Analysing Features in Studies Integrating Ecology, Development, and Evolution. Biology and Philosophy, 2006, 21, 25-40.	1.4	1
46	Buried alive: How osteoblasts become osteocytes. Developmental Dynamics, 2006, 235, 176-190.	1.8	601
47	"Evolutionist and Missionary,―The Reverend John Thomas Gulick (1832–1923). Part I: cumulative segregation—geographical isolation. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 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. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 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> . FASEB Journal, 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. Zoology, 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?. Archives of Oral Biology, 2005, 50, 213-217.	1.8	21
52	Betrayed byBalanoglossus: William Bateson's rejection of evolutionary embryology as the basis for understanding evolution. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2005, 304B, 1-17.	1.3	20
53	Fifty years later: I. Michael Lerner'sGenetic Homeostasis (1954)—a valiant attempt to integrate genes, organisms and environment. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2005, 304B, 187-197.	1.3	17
54	Consideration of the neural crest and its skeletal derivatives in the context of novelty/innovation. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 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. Evolution & Development, 2004, 6, 123-129.	2.0	52
57	Cartilage is a metazoan tissue; integrating data from nonvertebrate sources. Acta Zoologica, 2004, 85, 69-80.	0.8	45
58	In search of evolutionary developmental mechanisms: The 30-year gap between 1944 and 1974. The Journal of Experimental Zoology, 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. Zoology, 2004, 107, 261-273.	1.2	99
60	Unlocking the Black Box between Genotype and Phenotype: Cell Condensations as Morphogenetic (modular) Units. Biology and Philosophy, 2003, 18, 219-247.	1.4	88
61	The emergence of form: The shape of things to come. Developmental Dynamics, 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. The Journal of Experimental Zoology, 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. Biological Reviews, 2003, 78, 409-433.	10.4	272
65	Seasonal changes in the lower jaw skeleton in male Atlantic salmon (Salmo salar L.): remodelling and regression of the kype after spawning. Journal of Anatomy, 2003, 203, 435-450.	1.5	111
66	Secondary chondrocyte-derived Ihh stimulates proliferation of periosteal cells during chick development. Development (Cambridge), 2003, 130, 4729-4739.	2.5	40
67	Evo-Devo: evolutionary developmental mechanisms. International Journal of Developmental Biology, 2003, 47, 491-5.	0.6	99
68	Canalization, developmental stability, and morphological integration in primate limbs. American Journal of Physical Anthropology, 2002, 119, 131-158.	2.1	316
69	Limbs in whales and limblessness in other vertebrates: mechanisms of evolutionary and developmental transformation and loss. Evolution & Development, 2002, 4, 445-458.	2.0	121
70	Palaeontology and Evolutionary Developmental Biology: A Science of the Nineteenth and Twenty-first Centuries. Palaeontology, 2002, 45, 647-669.	2.2	65
71	Differentiation and growth of kype skeletal tissues in anadromous male Atlantic salmon (Salmo) Tj ETQq1 1 0.78	84314 rgB 0.6	T /Qyerlock 1
72	John Samuel Budgett (1872–1904): In Pursuit of Polypterus. BioScience, 2001, 51, 399.	4.9	13

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73	A review of first signals: the evolution of multicellular development. Evolution & Development, 2001, 3, 223-224.	2.0	1
74	The gene is not dead, merely orphaned and seeking a home. Evolution & Development, 2001, 3, 225-228.	2.0	28
75	A review of Images of development: environmental causes in ontogeny by Cor van der Weele. Evolution & Development, 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. The Journal of Experimental Zoology, 2001, 291, 258-273.	1.4	25
77	Features of mono- and multinucleated bone resorbing cells of the zebrafishDanio rerio and their contribution to skeletal development, remodeling, and growth. Journal of Morphology, 2001, 250, 197-207.	1.2	162
78	Development of the clavicles in birds and mammals. The Journal of Experimental Zoology, 2001, 289, 153-161.	1.4	57
79	Bridging the gap between developmental systems theory and evolutionary developmental biology. BioEssays, 2001, 23, 954-962.	2.5	113
80	Organic Selection: Proximate Environmental Effects on the Evolution of Morphology and Behaviour. Biology and Philosophy, 2001, 16, 215-237.	1.4	69
81	Altered timing of the extracellularâ€matrixâ€mediated epithelialâ€mesenchymal interaction that initiates mandibular skeletogenesis in three inbred strains of mice: Development, heterochrony, and evolutionary change in morphology. The Journal of Experimental Zoology, 2001, 291, 258-273.	1.4	13
82	Features of mono―and multinucleated bone resorbing cells of the zebrafish Danio rerio and their contribution to skeletal development, remodeling, and growth. Journal of Morphology, 2001, 250, 197-207.	1.2	7
83	All for one and one for all: condensations and the initiation of skeletal development. BioEssays, 2000, 22, 138-147.	2.5	790
84	Guest Editorial: Evoâ€devo or devoâ€evoâ€f—â€fdoes it matter?. Evolution & Development, 2000, 2, 177-178.	2.0	122
85	The neural crest as a fourth germ layer and vertebrates as quadroblastic not triploblastic. Evolution & Development, 2000, 2, 3-5.	2.0	166
86	Balfour, Garstang and de Beer: The First Century of Evolutionary Embryology1. American Zoologist, 2000, 40, 718-728.	0.7	19
87	A Role for Epithelial-Mesenchymal Interactions in Tail Growth/Morphogenesis and Chondrogenesis in Embryonic Mice. Cells Tissues Organs, 2000, 166, 6-14.	2.3	19
88	Balfour, Garstang and de Beer: The First Century of Evolutionary Embryology. American Zoologist, 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. BioScience, 1999, 49, 211-218.

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91	Introduction to the Symposium: Developmental and Evolutionary Perspectives on Major Transformations in Body Organization. American Zoologist, 1999, 39, 612-616.	0.7	11
92	Development of dermal denticles in skates (Chondrichthyes, Batoidea): Patterning and cellular differentiation. Journal of Morphology, 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. Developmental Biology, 1997, 188, 34-42.	2.0	54
96	Chondrogenic cell differentiation from membrane bone periostea. Anatomy and Embryology, 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 codGadus morhua (Teleostei, Gadiformes): I. Morphology. , 1996, 227, 15-35.		71
99	Ontogeny of feeding and respiration in larval Atlantic codGadus morhua (Teleostei, Gadiformes): II. Function. , 1996, 227, 37-50.		25
100	Atavisms and atavistic mutations. Nature Genetics, 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. The Journal of Experimental Zoology, 1994, 268, 22-43.	1.4	22
102	Evidence for a developmental and evolutionary link between placodal ectoderm and neural crest. The Journal of Experimental Zoology, 1994, 270, 292-301.	1.4	18
103	Calcification of Cartilage from the Lamprey <i>Petromyzon marinus</i> (L.) <i>in vitro</i> . Acta Zoologica, 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. American Zoologist, 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. Biological Journal of the Linnean Society, 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). Journal of Morphology, 1992, 212, 213-256.	1.2	66

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109	A MODEL FOR DEVELOPMENT AND EVOLUTION OF COMPLEX MORPHOLOGICAL STRUCTURES. Biological Reviews, 1991, 66, 101-157.	10.4	523
110	Toward an understanding of the epithelial requirement for osteogenesis in scleral mesenchyme of the embryonic chick. The Journal of Experimental Zoology, 1991, 259, 92-108.	1.4	28
111	DEVELOPMENT AND EVOLUTIONARY ORIGINS OF VERTEBRATE SKELETOGENIC AND ODONTOGENIC TISSUES. Biological Reviews, 1990, 65, 277-373.	10.4	300
112	Paralysis and growth of the musculoskeletal system in the embryonic chick. Journal of Morphology, 1990, 206, 45-56.	1.2	213
113	Genetic and Epigenetic Control of Vertebrate Embryonic Development. Animal Biology, 1989, 40, 352-361.	0.4	15
114	DEVELOPMENTAL PROCESSES, DEVELOPMENTAL SEQUENCES AND EARLY VERTEBRATE PHYLOGENY. Biological Reviews, 1989, 64, 73-91.	10.4	54
115	Ultrastructure of the osteogenesis of acellular vertebral bone in the Japanese medaka,Oryzias latipes (teleostei, cyprinidontidae). American Journal of Anatomy, 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. Journal of Morphology, 1988, 195, 247-256.	1.2	69
117	Development of the head skeleton of the Japanese medaka,Oryzias latipes (Teleostei). Journal of Morphology, 1987, 193, 135-158.	1.2	96
118	The development of acellularity of the vertebral bone of the Japanese medaka,Oryzias latipes (Teleostei; Cyprinidontidae). Journal of Morphology, 1987, 193, 253-261.	1.2	58
119	Repair of fractured lower jaws in the spotted salamander: Do amphibians form secondary cartilage?. The Journal of Experimental Zoology, 1985, 233, 359-368.	1.4	21
120	Variation and timing of the cranial ossification sequence of the oriental fire-bellied toad,Bombina orientalis (Amphibia, Discoglossidae). Journal of Morphology, 1984, 182, 245-255.	1.2	84
121	Developmental processes underlying heterochrony as an evolutionary mechanism. Canadian Journal of Zoology, 1984, 62, 1-7.	1.0	116
122	DEVELOPMENTAL MECHANISMS UNDERLYING THE FORMATION OF ATAVISMS. Biological Reviews, 1984, 59, 89-122.	10.4	125
123	Bone in the cartilaginous fishes. Nature, 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. Development (Cambridge), 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. The Anatomical Record, 1979, 194, 469-475.	1.8	45
126	Lack of association between avian cartilages of different embryological origins when maintained in vitro. American Journal of Anatomy, 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. Journal of Morphology, 1979, 162, 453-463.	1.2	47
128	Grafting of organs and tissues to the chorioallantoic membrane of the embryonic chick. Tissue Culture Association Manual, 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. The Anatomical Record, 1978, 190, 243-255.	1.8	5
130	Thallium-induced achondroplasia in chicken embryos and the concept of critical periods during development. Teratology, 1977, 15, 1-15.	1.6	26
131	Epithelial influences on skeletogenesis in the mandible of the embryonic chick. The Anatomical Record, 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. The Anatomical Record, 1975, 181, 767-777.	1.8	31
133	The origin and fate of osteoclasts. The Anatomical Record, 1975, 183, 1-11.	1.8	61
134	Evolutionary Consequences of Skeletal Differentiation. American Zoologist, 1975, 15, 329-350.	0.7	79
135	Isozymes of lactate dehydrogenase (LDH) in skeletal tissues of the embryonic and newly hatched chick. Development (Cambridge), 1974, 31, 169-181.	2.5	5