

Karen E Sears

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

2,160
citations

257101

24
h-index

264894

42
g-index

81
all docs

81
docs citations

81
times ranked

2269
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of bat flight: Morphologic and molecular evolution of bat wing digits. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6581-6586.	3.3	184
2	Limb development: a paradigm of gene regulation. Nature Reviews Genetics, 2017, 18, 245-258.	7.7	131
3	Patterning and post-patterning modes of evolutionary digit loss in mammals. Nature, 2014, 511, 41-45.	13.7	127
4	A milieu of regulatory elements in the epidermal differentiation complex syntenic block: implications for atopic dermatitis and psoriasis. Human Molecular Genetics, 2010, 19, 1453-1460.	1.4	92
5	The significance and scope of evolutionary developmental biology: a vision for the 21st century. Evolution & Development, 2015, 17, 198-219.	1.1	92
6	The correlated evolution of <i>Runx2</i> tandem repeats, transcriptional activity, and facial length in Carnivora. Evolution & Development, 2007, 9, 555-565.	1.1	91
7	A new fossil mammal assemblage from the southern Chilean Andes: implications for geology, geochronology, and tectonics. Journal of South American Earth Sciences, 2002, 15, 285-302.	0.6	88
8	CONSTRAINTS ON THE MORPHOLOGICAL EVOLUTION OF MARSUPIAL HOULDER GIRDLES. Evolution; International Journal of Organic Evolution, 2004, 58, 2353-2370.	1.1	78
9	CONSTRAINTS ON THE MORPHOLOGICAL EVOLUTION OF MARSUPIAL SHOULDER GIRDLES. Evolution; International Journal of Organic Evolution, 2004, 58, 2353.	1.1	67
10	DIFFERENCES IN THE TIMING OF PRECHONDROGENIC LIMB DEVELOPMENT IN MAMMALS: THE MARSUPIAL-PLACENTAL DICHOTOMY RESOLVED. Evolution; International Journal of Organic Evolution, 2009, 63, 2193-2200.	1.1	59
11	Morphological Diversification under High Integration in a Hyper Diverse Mammal Clade. Journal of Mammalian Evolution, 2020, 27, 563-575.	1.0	49
12	Reduced phenotypic covariation in marsupial limbs and the implications for mammalian evolution. Biological Journal of the Linnean Society, 2011, 102, 22-36.	0.7	45
13	Castration delays epigenetic aging and feminizes DNA methylation at androgen-regulated loci. ELife, 2021, 10, .	2.8	45
14	A new developmental mechanism for the separation of the mammalian middle ear ossicles from the jaw. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20162416.	1.2	44
15	Meckel's cartilage breakdown offers clues to mammalian middle ear evolution. Nature Ecology and Evolution, 2017, 1, 93.	3.4	43
16	Incomplete lineage sorting and phenotypic evolution in marsupials. Cell, 2022, 185, 1646-1660.e18.	13.5	43
17	Estimating body mass in New World "monkeys" (Platyrrhini, Primates), with a consideration of the Miocene platyrrhine, <i>Chilecebus carrascoensis</i> . American Museum Novitates, 2008, 3617, 1.	0.2	41
18	Multifactorial processes underlie parallel opsin loss in neotropical bats. ELife, 2018, 7, .	2.8	41

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19	Limb specialization in living marsupial and eutherian mammals: constraints on mammalian limb evolution. <i>Journal of Mammalogy</i> , 2011, 92, 1038-1049.	0.6	40
20	Assessing Soft-Tissue Shrinkage Estimates in Museum Specimens Imaged With Diffusible Iodine-Based Contrast-Enhanced Computed Tomography (diceCT). <i>Microscopy and Microanalysis</i> , 2018, 24, 284-291.	0.2	40
21	Molecular Determinants of Bat Wing Development. <i>Cells Tissues Organs</i> , 2008, 187, 6-12.	1.3	37
22	On the serial homology of the pectoral and pelvic girdles of tetrapods. <i>Evolution; International Journal of Organic Evolution</i> , 2015, 69, 2543-2555.	1.1	35
23	<i>Trpc2</i> pseudogenization dynamics in bats reveal ancestral vomeronasal signaling, then pervasive loss. <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 923-935.	1.1	32
24	Developmental basis of mammalian digit reduction: a case study in pigs. <i>Evolution & Development</i> , 2011, 13, 533-541.	1.1	29
25	The Evolutionary and Developmental Basis of Parallel Reduction in Mammalian Zeugopod Elements. <i>American Naturalist</i> , 2007, 169, 105-117.	1.0	28
26	Embryonic evidence uncovers convergent origins of laryngeal echolocation in bats. <i>Current Biology</i> , 2021, 31, 1353-1365.e3.	1.8	27
27	The evolution and development of mammalian flight. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2012, 1, 773-779.	5.9	26
28	The Relationship between Gene Network Structure and Expression Variation among Individuals and Species. <i>PLoS Genetics</i> , 2015, 11, e1005398.	1.5	25
29	Disparate <i>Igf1</i> Expression and Growth in the Fore- and Hind Limbs of a Marsupial Mammal (<i>Monodelphis domestica</i>). <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2012, 318, 279-293.	0.6	24
30	The Divergent Development of the Apical Ectodermal Ridge in the Marsupial <i>Monodelphis domestica</i> . <i>Anatomical Record</i> , 2010, 293, 1325-1332.	0.8	23
31	Review and experimental evaluation of the embryonic development and evolutionary history of flipper development and hyperphalangy in dolphins (Cetacea: Mammalia). <i>Genesis</i> , 2018, 56, e23076.	0.8	22
32	Find the food first: An omnivorous sensory morphotype predates biomechanical specialization for plant based diets in phyllostomid bats*. <i>Evolution; International Journal of Organic Evolution</i> , 2021, 75, 2791-2801.	1.1	21
33	Transcriptomic insights into the genetic basis of mammalian limb diversity. <i>BMC Evolutionary Biology</i> , 2017, 17, 86.	3.2	19
34	Foraging shifts and visual preadaptation in ecologically diverse bats. <i>Molecular Ecology</i> , 2020, 29, 1839-1859.	2.0	19
35	Novel insights into the regulation of limb development from "natural" mammalian mutants. <i>BioEssays</i> , 2011, 33, 327-331.	1.2	17
36	Integration of the mammalian shoulder girdle within populations and over evolutionary time. <i>Journal of Evolutionary Biology</i> , 2013, 26, 1536-1548.	0.8	17

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37	Timing the developmental origins of mammalian limb diversity. <i>Genesis</i> , 2018, 56, e23079.	0.8	15
38	Evaluating the performance of targeted sequence capture, RNA-seq, and degenerate primer PCR cloning for sequencing the largest mammalian multigene family. <i>Molecular Ecology Resources</i> , 2020, 20, 140-153.	2.2	15
39	Development of the marsupial shoulder girdle complex: a case study in <i>Monodelphis domestica</i> . <i>Evolution & Development</i> , 2013, 15, 18-27.	1.1	14
40	Cellular basis of differential limb growth in postnatal gray short-tailed opossums (<i>Monodelphis domestica</i>). <i>Development</i> , 2014, 141, 221-229.	0.6	12
41	Differences in Growth Generate the Diverse Palate Shapes of New World Leaf-Nosed Bats (Order Chiroptera). <i>Evolution</i> , 2014, 68, 1784-1794.	0.5	12
42	Developmental influence on evolutionary rates and the origin of placental mammal tooth complexity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	12
43	Epigenetic clock and methylation studies in marsupials: opossums, Tasmanian devils, kangaroos, and wallabies. <i>GeroScience</i> , 2022, 44, 1825-1845.	2.1	12
44	Unraveling the heritage of lost traits. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2022, 338, 107-118.	0.6	11
45	Quantifying the impact of development on phenotypic variation and evolution. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2014, 322, 643-653.	0.6	10
46	Palate Variation and Evolution in New World Leaf-Nosed and Old World Fruit Bats (Order Chiroptera). <i>Evolution</i> , 2014, 68, 382-392.	0.5	10
47	Cellular and molecular drivers of differential organ growth: insights from the limbs of <i>Monodelphis domestica</i> . <i>Development Genes and Evolution</i> , 2016, 226, 235-243.	0.4	10
48	A new mammalian model system for thalidomide teratogenesis: <i>Monodelphis domestica</i> . <i>Reproductive Toxicology</i> , 2017, 70, 126-132.	1.3	10
49	The developmental reduction of the marsupial coracoid: A case study in <i>Monodelphis domestica</i> . <i>Journal of Morphology</i> , 2010, 271, 769-776.	0.6	8
50	CONSTRAINTS ON MAMMALIAN FORELIMB DEVELOPMENT: INSIGHTS FROM DEVELOPMENTAL DISPARITY. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 3645-3652.	1.1	8
51	The Development of Integration in Marsupial and Placental Limbs. <i>Integrative Organismal Biology</i> , 2019, 1, oby013.	0.9	8
52	Non-model systems in mammalian forelimb evo-devo. <i>Current Opinion in Genetics and Development</i> , 2021, 69, 65-71.	1.5	8
53	Making a bat: The developmental basis of bat evolution. <i>Genetics and Molecular Biology</i> , 2020, 43, e20190146.	0.6	8
54	Exogenous retinoic acid induces digit reduction in opossums (<i>Monodelphis domestica</i>) by disrupting cell death and proliferation, and apical ectodermal ridge and zone of polarizing activity function. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2015, 103, 225-234.	1.6	7

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55	Evidence of five digits in embryonic horses and developmental stabilization of tetrapod digit number. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20192756.	1.2	7
56	Role of development in the evolution of the scapula of the giant sthenurine kangaroos (Macropodidae: Sthenurinae). <i>Journal of Morphology</i> , 2005, 265, 226-236.	0.6	6
57	Molecular determinants of marsupial limb integration and constraint. , 2012, , 257-278.		6
58	Testing hypotheses of marsupial brain size variation using phylogenetic multiple imputations and a Bayesian comparative framework. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210394.	1.2	6
59	Bat Dentitions: A Model System for Studies at the Interface of Development, Biomechanics, and Evolution. <i>Integrative and Comparative Biology</i> , 2022, 62, 762-773.	0.9	6
60	How to Grow a Bat Wing. , 2013, , 3-20.		5
61	The Role of Core and Variable Gene Regulatory Network Modules in Tooth Development and Evolution. <i>Integrative and Comparative Biology</i> , 2020, , .	0.9	5
62	Conjoined Twins in a Wild Bat: A Case Report. <i>Acta Chiropterologica</i> , 2015, 17, 189-192.	0.2	4
63	Emergent Coordination of the CHKB and CPT1B Genes in Eutherian Mammals: Implications for the Origin of Brown Adipose Tissue. <i>Journal of Molecular Biology</i> , 2020, 432, 6127-6145.	2.0	3
64	It's time to get together: Announcing the new society for evolutionary developmental biology in the Americas. <i>Evolution & Development</i> , 2015, 17, 1-1.	1.1	2
65	Comparison of Hindlimb Muscle Architecture Properties in Small-Bodied, Generalist Mammals Suggests Similarity in Soft Tissue Anatomy. <i>Journal of Mammalian Evolution</i> , 2022, 29, 477-491.	1.0	1
66	Limb development, evolution, and regeneration & repair: Part 1. <i>Developmental Dynamics</i> , 2021, 250, 1218-1219.	0.8	0
67	CELLULAR PATTERNS OF BAT (CAROLLIA) FORELIMB SKELETOGENESIS AND THEIR BIOMECHANICAL CONSEQUENCES. <i>FASEB Journal</i> , 2012, 26, 339.7.	0.2	0
68	The Marsupial Intervertebral Disc: An Anatomical Characterization. <i>FASEB Journal</i> , 2015, 29, 875.2.	0.2	0
69	Timing the Developmental Origins of Mammalian Limb Diversity. <i>FASEB Journal</i> , 2015, 29, 349.1.	0.2	0
70	Mechanisms of Mammalian Middle Ear Ossicle Transition from the Reptilian Jaw Joint. <i>FASEB Journal</i> , 2015, 29, 345.3.	0.2	0
71	Characterization & Culture of Spermatogonial Stem Cells of the Gray Short-tailed Opossum (<i>Monodelphis domestica</i>). <i>FASEB Journal</i> , 2018, 32, 645.1.	0.2	0