

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	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
2	Incomplete lineage sorting and phenotypic evolution in marsupials. <i>Cell</i> , 2022, 185, 1646-1660.e18.	13.5	43
3	Epigenetic clock and methylation studies in marsupials: opossums, Tasmanian devils, kangaroos, and wallabies. <i>GeroScience</i> , 2022, 44, 1825-1845.	2.1	12
4	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
5	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
6	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
7	Embryonic evidence uncovers convergent origins of laryngeal echolocation in bats. <i>Current Biology</i> , 2021, 31, 1353-1365.e3.	1.8	27
8	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
9	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
10	Castration delays epigenetic aging and feminizes DNA methylation at androgen-regulated loci. <i>ELife</i> , 2021, 10, .	2.8	45
11	Non-model systems in mammalian forelimb evo-devo. <i>Current Opinion in Genetics and Development</i> , 2021, 69, 65-71.	1.5	8
12	Limb development, evolution, and regeneration & repair: Part 1. <i>Developmental Dynamics</i> , 2021, 250, 1218-1219.	0.8	0
13	Morphological Diversification under High Integration in a Hyper Diverse Mammal Clade. <i>Journal of Mammalian Evolution</i> , 2020, 27, 563-575.	1.0	49
14	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
15	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
16	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
17	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
18	Foraging shifts and visual preadaptation in ecologically diverse bats. <i>Molecular Ecology</i> , 2020, 29, 1839-1859.	2.0	19

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19	Making a bat: The developmental basis of bat evolution. <i>Genetics and Molecular Biology</i> , 2020, 43, e20190146.	0.6	8
20	The Development of Integration in Marsupial and Placental Limbs. <i>Integrative Organismal Biology</i> , 2019, 1, oby013.	0.9	8
21	Timing the developmental origins of mammalian limb diversity. <i>Genesis</i> , 2018, 56, e23079.	0.8	15
22	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
23	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
24	Multifactorial processes underlie parallel opsin loss in neotropical bats. <i>ELife</i> , 2018, 7, .	2.8	41
25	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
26	A new mammalian model system for thalidomide teratogenesis: <i>Monodelphis domestica</i> . <i>Reproductive Toxicology</i> , 2017, 70, 126-132.	1.3	10
27	<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
28	Limb development: a paradigm of gene regulation. <i>Nature Reviews Genetics</i> , 2017, 18, 245-258.	7.7	131
29	A new developmental mechanism for the separation of the mammalian middle ear ossicles from the jaw. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162416.	1.2	44
30	Meckel's cartilage breakdown offers clues to mammalian middle ear evolution. <i>Nature Ecology and Evolution</i> , 2017, 1, 93.	3.4	43
31	Transcriptomic insights into the genetic basis of mammalian limb diversity. <i>BMC Evolutionary Biology</i> , 2017, 17, 86.	3.2	19
32	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
33	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
34	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
35	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
36	The significance and scope of evolutionary developmental biology: a vision for the 21st century. <i>Evolution & Development</i> , 2015, 17, 198-219.	1.1	92

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37	Conjoined Twins in a Wild Bat: A Case Report. <i>Acta Chiropterologica</i> , 2015, 17, 189-192.	0.2	4
38	The Relationship between Gene Network Structure and Expression Variation among Individuals and Species. <i>PLoS Genetics</i> , 2015, 11, e1005398.	1.5	25
39	The Marsupial Intervertebral Disc: An Anatomical Characterization. <i>FASEB Journal</i> , 2015, 29, 875.2.	0.2	0
40	Timing the Developmental Origins of Mammalian Limb Diversity. <i>FASEB Journal</i> , 2015, 29, 349.1.	0.2	0
41	Mechanisms of Mammalian Middle Ear Ossicle Transition from the Reptilian Jaw Joint. <i>FASEB Journal</i> , 2015, 29, 345.3.	0.2	0
42	Cellular basis of differential limb growth in postnatal gray short-tailed opossums (<i>Monodelphis domestica</i>). <i>Development</i> , 2014, 141, 322, 221-229.	0.6	12
43	Differences in Growth Generate the Diverse Palate Shapes of New World Leaf-Nosed Bats (Order Chiroptera). <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2014, 322, 643-653.	0.5	12
44	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
45	Palate Variation and Evolution in New World Leaf-Nosed and Old World Fruit Bats (Order Chiroptera). <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2014, 322, 643-653.	0.5	10
46	Patterning and post-patterning modes of evolutionary digit loss in mammals. <i>Nature</i> , 2014, 511, 41-45.	13.7	127
47	How to Grow a Bat Wing. <i>Development</i> , 2013, 140, 3-20.		5
48	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
49	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
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	Molecular determinants of marsupial limb integration and constraint. <i>Development</i> , 2012, 139, 257-278.		6
52	The evolution and development of mammalian flight. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2012, 1, 773-779.	5.9	26
53	Disparate <i>MyoD</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
54	CELLULAR PATTERNS OF BAT (CAROLLIA) FORELIMB SKELETOGENESIS AND THEIR BIOMECHANICAL CONSEQUENCES. <i>FASEB Journal</i> , 2012, 26, 339.7.	0.2	0

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55	Developmental basis of mammalian digit reduction: a case study in pigs. <i>Evolution & Development</i> , 2011, 13, 533-541.	1.1	29
56	Reduced phenotypic covariation in marsupial limbs and the implications for mammalian evolution. <i>Biological Journal of the Linnean Society</i> , 2011, 102, 22-36.	0.7	45
57	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
58	Novel insights into the regulation of limb development from "natural" mammalian mutants. <i>BioEssays</i> , 2011, 33, 327-331.	1.2	17
59	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
60	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
61	A milieu of regulatory elements in the epidermal differentiation complex syntenic block: implications for atopic dermatitis and psoriasis. <i>Human Molecular Genetics</i> , 2010, 19, 1453-1460.	1.4	92
62	DIFFERENCES IN THE TIMING OF PRECHONDROGENIC LIMB DEVELOPMENT IN MAMMALS: THE MARSUPIAL-PLACENTAL DICHOTOMY RESOLVED. <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 2193-2200.	1.1	59
63	Molecular Determinants of Bat Wing Development. <i>Cells Tissues Organs</i> , 2008, 187, 6-12.	1.3	37
64	Estimating body mass in New World "monkeys" (Platyrrhini, Primates), with a consideration of the Miocene platyrrhine, <i>Chilecebus carrascoensis</i> . <i>American Museum Novitates</i> , 2008, 3617, 1.	0.2	41
65	The Evolutionary and Developmental Basis of Parallel Reduction in Mammalian Zeugopod Elements. <i>American Naturalist</i> , 2007, 169, 105-117.	1.0	28
66	The correlated evolution of <i>Runx2</i> tandem repeats, transcriptional activity, and facial length in Carnivora. <i>Evolution & Development</i> , 2007, 9, 555-565.	1.1	91
67	Development of bat flight: Morphologic and molecular evolution of bat wing digits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6581-6586.	3.3	184
68	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
69	CONSTRAINTS ON THE MORPHOLOGICAL EVOLUTION OF MARSUPIAL HOULDER GIRDLES. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 2353-2370.	1.1	78
70	CONSTRAINTS ON THE MORPHOLOGICAL EVOLUTION OF MARSUPIAL SHOULDER GIRDLES. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 2353.	1.1	67
71	A new fossil mammal assemblage from the southern Chilean Andes: implications for geology, geochronology, and tectonics. <i>Journal of South American Earth Sciences</i> , 2002, 15, 285-302.	0.6	88