

Cassandra G Extavour

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

3,131
citations

32
h-index

54
g-index

116
ext. papers

3,779
ext. citations

5.4
avg, IF

5.6
L-index

#	Paper	IF	Citations
91	Mechanisms of germ cell specification across the metazoans: epigenesis and preformation. <i>Development (Cambridge)</i> , 2003 , 130, 5869-84	6.6	547
90	The house spider genome reveals an ancient whole-genome duplication during arachnid evolution. <i>BMC Biology</i> , 2017 , 15, 62	7.3	182
89	The first myriapod genome sequence reveals conservative arthropod gene content and genome organisation in the centipede <i>Strigamia maritima</i> . <i>PLoS Biology</i> , 2014 , 12, e1002005	9.7	182
88	The molecular machinery of germ line specification. <i>Molecular Reproduction and Development</i> , 2010 , 77, 3-18	2.6	117
87	vasa and nanos expression patterns in a sea anemone and the evolution of bilaterian germ cell specification mechanisms. <i>Evolution & Development</i> , 2005 , 7, 201-15	2.6	115
86	The maternal and early embryonic transcriptome of the milkweed bug <i>Oncopeltus fasciatus</i> . <i>BMC Genomics</i> , 2011 , 12, 61	4.5	106
85	The genome of the crustacean a model for animal development, regeneration, immunity and lignocellulose digestion. <i>ELife</i> , 2016 , 5,	8.9	100
84	Vasa protein expression is restricted to the small micromeres of the sea urchin, but is inducible in other lineages early in development. <i>Developmental Biology</i> , 2008 , 314, 276-86	3.1	96
83	Are we there yet? Tracking the development of new model systems. <i>Trends in Genetics</i> , 2008 , 24, 353-608.5		92
82	Evolution of the bilaterian germ line: lineage origin and modulation of specification mechanisms. <i>Integrative and Comparative Biology</i> , 2007 , 47, 770-85	2.8	88
81	De novo assembly and characterization of a maternal and developmental transcriptome for the emerging model crustacean <i>Parhyale hawaiiensis</i> . <i>BMC Genomics</i> , 2011 , 12, 581	4.5	76
80	The significance and scope of evolutionary developmental biology: a vision for the 21st century. <i>Evolution & Development</i> , 2015 , 17, 198-219	2.6	73
79	Molecular evolutionary trends and feeding ecology diversification in the Hemiptera, anchored by the milkweed bug genome. <i>Genome Biology</i> , 2019 , 20, 64	18.3	60
78	The fate of isolated blastomeres with respect to germ cell formation in the amphipod crustacean <i>Parhyale hawaiiensis</i> . <i>Developmental Biology</i> , 2005 , 277, 387-402	3.1	58
77	Hox gene expression in the harvestman <i>Phalangium opilio</i> reveals divergent patterning of the chelicerate opisthosoma. <i>Evolution & Development</i> , 2012 , 14, 450-63	2.6	54
76	Germ cell specification requires zygotic mechanisms rather than germ plasm in a basally branching insect. <i>Current Biology</i> , 2013 , 23, 835-42	6.3	54
75	Oskar predates the evolution of germ plasm in insects. <i>Current Biology</i> , 2012 , 22, 2278-83	6.3	50

74	Notch/Delta signalling is not required for segment generation in the basally branching insect <i>Gryllus bimaculatus</i> . <i>Development (Cambridge)</i> , 2011 , 138, 5015-26	6.6	47
73	Embryonic development of the cricket <i>Gryllus bimaculatus</i> . <i>Developmental Biology</i> , 2016 , 411, 140-56	3.1	45
72	Hox gene duplications correlate with posterior heteronomy in scorpions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281,	4.4	45
71	A comprehensive reference transcriptome resource for the common house spider <i>Parasteatoda tepidariorum</i> . <i>PLoS ONE</i> , 2014 , 9, e104885	3.7	45
70	Insect egg size and shape evolve with ecology but not developmental rate. <i>Nature</i> , 2019 , 571, 58-62	50.4	44
69	BMP signaling is required for the generation of primordial germ cells in an insect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4133-8	11.5	44
68	The roles of cell size and cell number in determining ovariole number in <i>Drosophila</i> . <i>Developmental Biology</i> , 2012 , 363, 279-89	3.1	40
67	Bone Morphogenetic Protein (BMP) signaling in animal reproductive system development and function. <i>Developmental Biology</i> , 2017 , 427, 258-269	3.1	37
66	<i>vasa</i> and <i>piwi</i> are required for mitotic integrity in early embryogenesis in the spider <i>Parasteatoda tepidariorum</i> . <i>Developmental Biology</i> , 2015 , 402, 276-90	3.1	37
65	Evolution of the chelicera: a dachshund domain is retained in the deutocerebral appendage of Opiliones (Arthropoda, Chelicerata). <i>Evolution & Development</i> , 2012 , 14, 522-33	2.6	36
64	Causes and evolutionary consequences of primordial germ-cell specification mode in metazoans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5784-5791	11.5	35
63	The Hippo pathway regulates homeostatic growth of stem cell niche precursors in the <i>Drosophila</i> ovary. <i>PLoS Genetics</i> , 2015 , 11, e1004962	6	35
62	Distal-less and dachshund pattern both plesiomorphic and apomorphic structures in chelicerates: RNA interference in the harvestman <i>Phalangium opilio</i> (Opiliones). <i>Evolution & Development</i> , 2013 , 15, 228-42	2.6	34
61	Developmental gene discovery in a hemimetabolous insect: de novo assembly and annotation of a transcriptome for the cricket <i>Gryllus bimaculatus</i> . <i>PLoS ONE</i> , 2013 , 8, e61479	3.7	34
60	Convergent evolution of a reproductive trait through distinct developmental mechanisms in <i>Drosophila</i> . <i>Developmental Biology</i> , 2012 , 372, 120-30	3.1	32
59	Insulin signalling underlies both plasticity and divergence of a reproductive trait in <i>Drosophila</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281, 20132673	4.4	29
58	Evidence against a germ plasm in the milkweed bug <i>Oncopeltus fasciatus</i> , a hemimetabolous insect. <i>Biology Open</i> , 2013 , 2, 556-68	2.2	27
57	Patterns of cell lineage, movement, and migration from germ layer specification to gastrulation in the amphipod crustacean <i>Parhyale hawaiiensis</i> . <i>Developmental Biology</i> , 2011 , 359, 110-123	3.1	26

56	The transcriptional repressor Blimp-1 acts downstream of BMP signaling to generate primordial germ cells in the cricket <i>Gryllus bimaculatus</i> . <i>Development (Cambridge)</i> , 2016 , 143, 255-63	6.6	24
55	A conserved genetic mechanism specifies deutocerebral appendage identity in insects and arachnids. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015 , 282, 20150698	4.4	23
54	ASGARD: an open-access database of annotated transcriptomes for emerging model arthropod species. <i>Database: the Journal of Biological Databases and Curation</i> , 2012 , 2012, bas048	5	19
53	Rapid Evolution of Ovarian-Biased Genes in the Yellow Fever Mosquito (<i>Aedes triseriatus</i>). <i>Genetics</i> , 2017 , 206, 2119-2137	4	18
52	Subdivision of arthropod cap-n-collar expression domains is restricted to Mandibulata. <i>EvoDevo</i> , 2014 , 5, 3	3.2	17
51	Codon and Amino Acid Usage Are Shaped by Selection Across Divergent Model Organisms of the Pancrustacea. <i>G3: Genes, Genomes, Genetics</i> , 2015 , 5, 2307-21	3.2	17
50	A dataset of egg size and shape from more than 6,700 insect species. <i>Scientific Data</i> , 2019 , 6, 104	8.2	16
49	Insights into the genomic evolution of insects from cricket genomes. <i>Communications Biology</i> , 2021 , 4, 733	6.7	15
48	Patterns of molecular evolution of the germ line specification gene <i>oskar</i> suggest that a novel domain may contribute to functional divergence in <i>Drosophila</i> . <i>Development Genes and Evolution</i> , 2014 , 224, 65-77	1.8	14
47	Expression and function of spineless orthologs correlate with distal deutocerebral appendage morphology across Arthropoda. <i>Developmental Biology</i> , 2017 , 430, 224-236	3.1	14
46	Germ cell selection in genetic mosaics in <i>Drosophila melanogaster</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 11341-6	11.5	14
45	Ancestral and offspring nutrition interact to affect life-history traits in <i>Drosophila melanogaster</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019 , 286, 20182778	4.4	13
44	Expression-Linked Patterns of Codon Usage, Amino Acid Frequency, and Protein Length in the Basally Branching Arthropod <i>Parasteatoda tepidariorum</i> . <i>Genome Biology and Evolution</i> , 2016 , 8, 2722-36	3.9	13
43	Identification of a putative germ plasm in the amphipod <i>Parhyale hawaiiensis</i> . <i>EvoDevo</i> , 2013 , 4, 34	3.2	12
42	Molecular evolutionary trends and feeding ecology diversification in the Hemiptera, anchored by the milkweed bug genome		11
41	A premeiotic function for <i>boule</i> in the planarian <i>Schmidtea mediterranea</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E3509-18	11.5	10
40	Bacterial contribution to genesis of the novel germ line determinant. <i>ELife</i> , 2020 , 9,	8.9	10
39	Selection shapes turnover and magnitude of sex-biased expression in <i>Drosophila</i> gonads. <i>BMC Evolutionary Biology</i> , 2019 , 19, 60	3	10

38	Null hypotheses for developmental evolution. <i>Development (Cambridge)</i> , 2020 , 147,	6.6	9
37	Refuting the hypothesis that the acquisition of germ plasm accelerates animal evolution. <i>Nature Communications</i> , 2016 , 7, 12637	17.4	8
36	Convergent evolution of germ granule nucleators: A hypothesis. <i>Stem Cell Research</i> , 2017 , 24, 188-194	1.6	8
35	Reproductive Capacity Evolves in Response to Ecology through Common Changes in Cell Number in Hawaiian <i>Drosophila</i> . <i>Current Biology</i> , 2019 , 29, 1877-1884.e6	6.3	7
34	Absence of a Faster-X Effect in Beetles (, Coleoptera). <i>G3: Genes, Genomes, Genetics</i> , 2020 , 10, 1125-1136.	1.2	7
33	Oogenesis: making the mos of meiosis. <i>Current Biology</i> , 2009 , 19, R489-91	6.3	7
32	The Cricket <i>Gryllus bimaculatus</i> : Techniques for Quantitative and Functional Genetic Analyses of Cricket Biology. <i>Results and Problems in Cell Differentiation</i> , 2019 , 68, 183-216	1.4	7
31	Insights into the genomic evolution of insects from cricket genomes		7
30	Counting in oogenesis. <i>Cell and Tissue Research</i> , 2011 , 344, 207-12	4.2	5
29	Gray anatomy: phylogenetic patterns of somatic gonad structures and reproductive strategies across the Bilateria. <i>Integrative and Comparative Biology</i> , 2007 , 47, 420-6	2.8	5
28	High-throughput live-imaging of embryos in microwell arrays using a modular specimen mounting system. <i>Biology Open</i> , 2018 , 7,	2.2	5
27	Contrasting patterns of molecular evolution in metazoan germ line genes. <i>BMC Evolutionary Biology</i> , 2019 , 19, 53	3	4
26	Hox genes limit germ cell formation in the short germ insect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 16430-16435	11.5	4
25	Long-lost relative claims orphan gene: oskar in a wasp. <i>PLoS Genetics</i> , 2011 , 7, e1002045	6	4
24	Hold the germ cells, lth on duty. <i>BioEssays</i> , 2004 , 26, 1263-7	4.1	4
23	Topology-driven protein-protein interaction network analysis detects genetic sub-networks regulating reproductive capacity. <i>ELife</i> , 2020 , 9,	8.9	4
22	Bacterial contribution to genesis of the novel germ line determinant oskar		4
21	Adaptation of codon and amino acid use for translational functions in highly expressed cricket genes. <i>BMC Genomics</i> , 2021 , 22, 234	4.5	4

20	Evolutionary dynamics of sex-biased genes expressed in cricket brains and gonads. <i>Journal of Evolutionary Biology</i> , 2021 , 34, 1188-1211	2.3	4
19	Injecting <i>Gryllus bimaculatus</i> Eggs. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	4
18	Ablation of a single cell from eight-cell embryos of the amphipod crustacean <i>Parhyale hawaiiensis</i> . <i>Journal of Visualized Experiments</i> , 2014 ,	1.6	3
17	The house spider genome reveals an ancient whole-genome duplication during arachnid evolution		3
16	Repeated loss of variation in insect ovary morphology highlights the role of development in life-history evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20210150	4.4	3
15	Live long and prosper: germline stem cell maintenance revisited (retrospective on DOI: 10.1002/bies.201000085). <i>BioEssays</i> , 2013 , 35, 763	4.1	2
14	Topology-driven protein-protein interaction network analysis detects genetic sub-networks regulating reproductive capacity		2
13	Shared Cell Biological Functions May Underlie Pleiotropy of Molecular Interactions in the Germ Lines and Nervous Systems of Animals. <i>Frontiers in Ecology and Evolution</i> , 2020 , 8,	3.7	2
12	Establishment of CRISPR/Cas9-based knock-in in a hemimetabolous insect: targeted gene tagging in the cricket <i>Gryllus bimaculatus</i>		2
11	Evidence of multifaceted functions of codon usage in translation within the model beetle <i>Tribolium castaneum</i> . <i>DNA Research</i> , 2019 , 26, 473-484	4.5	2
10	Genomics and genome editing techniques of crickets, an emerging model insect for biology and food science.. <i>Current Opinion in Insect Science</i> , 2022 , 100881	5.1	1
9	Absence of a faster-X effect in beetles (<i>Tribolium</i> , Coleoptera)		1
8	The genome of the crustacean <i>Parhyale hawaiiensis</i> : a model for animal development, regeneration, immunity and lignocellulose digestion		1
7	Repeated loss of variation in insect ovary morphology highlights the role of developmental constraint in life-history evolution		1
6	Evolutionary dynamics of sex-biased genes expressed in cricket brains and gonads		1
5	Evidence of multifaceted functions of codon usage in translation within the model beetle <i>Tribolium castaneum</i>		1
4	Evolution of a Cytoplasmic Determinant: Evidence for the Biochemical Basis of Functional Evolution of the Novel Germ Line Regulator Oskar. <i>Molecular Biology and Evolution</i> , 2021 , 38, 5491-5513	8.3	1
3	Redefining Stem Cells and Assembling Germ Plasm 2010 , 360-397		

- 2 In the Spotlight-Established researcher. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, **2021**, 336, 589-590 1.8
- 1 Cricket: The third domesticated insect.. *Current Topics in Developmental Biology*, **2022**, 147, 291-306 5.3