

Cassandra G Extavour

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

4,176
citations

136885

32
h-index

133188

59
g-index

116
all docs

116
docs citations

116
times ranked

4236
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of germ cell specification across the metazoans: epigenesis and preformation. <i>Development (Cambridge)</i> , 2003, 130, 5869-5884.	1.2	677
2	The house spider genome reveals an ancient whole-genome duplication during arachnid evolution. <i>BMC Biology</i> , 2017, 15, 62.	1.7	286
3	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.	2.6	221
4	The molecular machinery of germ line specification. <i>Molecular Reproduction and Development</i> , 2010, 77, 3-18.	1.0	156
5	vasa and nanosexpression patterns in a sea anemone and the evolution of bilaterian germ cell specification mechanisms. <i>Evolution & Development</i> , 2005, 7, 201-215.	1.1	132
6	The genome of the crustacean <i>Parhyale hawaiiensis</i> , a model for animal development, regeneration, immunity and lignocellulose digestion. <i>ELife</i> , 2016, 5, .	2.8	130
7	Molecular evolutionary trends and feeding ecology diversification in the Hemiptera, anchored by the milkweed bug genome. <i>Genome Biology</i> , 2019, 20, 64.	3.8	114
8	The maternal and early embryonic transcriptome of the milkweed bug <i>Oncopeltus fasciatus</i> . <i>BMC Genomics</i> , 2011, 12, 61.	1.2	110
9	Are we there yet? Tracking the development of new model systems. <i>Trends in Genetics</i> , 2008, 24, 353-360.	2.9	109
10	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, 276-286.	0.9	101
11	Evolution of the bilaterian germ line: lineage origin and modulation of specification mechanisms. <i>Integrative and Comparative Biology</i> , 2007, 47, 770-785.	0.9	100
12	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
13	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.	1.2	85
14	Embryonic development of the cricket <i>Gryllus bimaculatus</i> . <i>Developmental Biology</i> , 2016, 411, 140-156.	0.9	81
15	Insect egg size and shape evolve with ecology but not developmental rate. <i>Nature</i> , 2019, 571, 58-62.	13.7	78
16	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.	0.9	67
17	Germ Cell Specification Requires Zygotic Mechanisms Rather Than Germ Plasm in a Basally Branching Insect. <i>Current Biology</i> , 2013, 23, 835-842.	1.8	65
18	Hox gene expression in the harvestman <i>Phalangium opilio</i> reveals divergent patterning of the chelicerate opisthosoma. <i>Evolution & Development</i> , 2012, 14, 450-463.	1.1	64

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19	Hox gene duplications correlate with posterior heteronomy in scorpions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140661.	1.2	59
20	Bone Morphogenetic Protein (BMP) signaling in animal reproductive system development and function. <i>Developmental Biology</i> , 2017, 427, 258-269.	0.9	59
21	oskar Predates the Evolution of Germ Plasm in Insects. <i>Current Biology</i> , 2012, 22, 2278-2283.	1.8	58
22	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, 4133-4138.	3.3	57
23	A Comprehensive Reference Transcriptome Resource for the Common House Spider <i>Parasteatoda tepidariorum</i> . <i>PLoS ONE</i> , 2014, 9, e104885.	1.1	57
24	The roles of cell size and cell number in determining ovariole number in <i>Drosophila</i> . <i>Developmental Biology</i> , 2012, 363, 279-289.	0.9	54
25	Notch/Delta signalling is not required for segment generation in the basally branching insect <i>Gryllus bimaculatus</i> . <i>Development (Cambridge)</i> , 2011, 138, 5015-5026.	1.2	51
26	The Hippo Pathway Regulates Homeostatic Growth of Stem Cell Niche Precursors in the <i>Drosophila</i> Ovary. <i>PLoS Genetics</i> , 2015, 11, e1004962.	1.5	50
27	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.	3.3	50
28	vasa and piwi are required for mitotic integrity in early embryogenesis in the spider <i>Parasteatoda tepidariorum</i> . <i>Developmental Biology</i> , 2015, 402, 276-290.	0.9	49
29	Convergent evolution of a reproductive trait through distinct developmental mechanisms in <i>Drosophila</i> . <i>Developmental Biology</i> , 2012, 372, 120-130.	0.9	42
30	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.	1.2	42
31	Evolution of the chelicera: a <i>dachshund</i> domain is retained in the deutocerebral appendage of Opiliones (Arthropoda, Chelicerata). <i>Evolution & Development</i> , 2012, 14, 522-533.	1.1	41
32	<i>Distal-less</i> and <i>dachshund</i> pattern both plesiomorphic and apomorphic structures in chelicerates: <i>scp</i> RNA interference in the harvestman <i>Phalangium opilio</i> (<i>scp</i> Opiliones). <i>Evolution & Development</i> , 2013, 15, 228-242.	1.1	41
33	Insights into the genomic evolution of insects from cricket genomes. <i>Communications Biology</i> , 2021, 4, 733.	2.0	41
34	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.	1.1	41
35	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, 255-263.	1.2	36
36	Evidence against a germ plasm in the milkweed bug <i>Oncopeltus fasciatus</i> , a hemimetabolous insect. <i>Biology Open</i> , 2013, 2, 556-568.	0.6	35

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37	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.	0.9	31
38	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.	1.2	29
39	A dataset of egg size and shape from more than 6,700 insect species. <i>Scientific Data</i> , 2019, 6, 104.	2.4	26
40	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.	1.2	26
41	Rapid Evolution of Ovarian-Biased Genes in the Yellow Fever Mosquito (<i>Aedes aegypti</i>). <i>Genetics</i> , 2017, 206, 2119-2137.	1.2	22
42	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, 11341-11346.	3.3	21
43	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-bas048.	1.4	21
44	Selection shapes turnover and magnitude of sex-biased expression in <i>Drosophila</i> gonads. <i>BMC Evolutionary Biology</i> , 2019, 19, 60.	3.2	21
45	Bacterial contribution to genesis of the novel germ line determinant oskar. <i>ELife</i> , 2020, 9, .	2.8	21
46	Codon and Amino Acid Usage Are Shaped by Selection Across Divergent Model Organisms of the Pancrustacea. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 2307-2321.	0.8	20
47	Absence of a Faster-X Effect in Beetles (<i>Tribolium</i> , Coleoptera). <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 1125-1136.	0.8	20
48	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, 2722-2736.	1.1	19
49	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.	1.2	19
50	Expression and function of spineless orthologs correlate with distal deutocerebral appendage morphology across Arthropoda. <i>Developmental Biology</i> , 2017, 430, 224-236.	0.9	18
51	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.	1.8	18
52	Null hypotheses for developmental evolution. <i>Development (Cambridge)</i> , 2020, 147, .	1.2	18
53	Subdivision of arthropod cap-n-collar expression domains is restricted to Mandibulata. <i>EvoDevo</i> , 2014, 5, 3.	1.3	17
54	Convergent evolution of germ granule nucleators: A hypothesis. <i>Stem Cell Research</i> , 2017, 24, 188-194.	0.3	16

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55	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.	0.4	15
56	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.	3.3	15
57	Evolutionary dynamics of sex-biased genes expressed in cricket brains and gonads. <i>Journal of Evolutionary Biology</i> , 2021, 34, 1188-1211.	0.8	14
58	Identification of a putative germ plasm in the amphipod <i>Parhyale hawaiiensis</i> . <i>EvoDevo</i> , 2013, 4, 34.	1.3	12
59	Topology-driven protein-protein interaction network analysis detects genetic sub-networks regulating reproductive capacity. <i>ELife</i> , 2020, 9, .	2.8	12
60	Refuting the hypothesis that the acquisition of germ plasm accelerates animal evolution. <i>Nature Communications</i> , 2016, 7, 12637.	5.8	11
61	Oogenesis: Making the Most of Meiosis. <i>Current Biology</i> , 2009, 19, R489-R491.	1.8	10
62	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.	0.2	10
63	Counting in oogenesis. <i>Cell and Tissue Research</i> , 2011, 344, 207-212.	1.5	9
64	High-throughput live-imaging of embryos in microwell arrays using a modular specimen mounting system. <i>Biology Open</i> , 2018, 7, .	0.6	9
65	Adaptation of codon and amino acid use for translational functions in highly expressed cricket genes. <i>BMC Genomics</i> , 2021, 22, 234.	1.2	9
66	Contrasting patterns of molecular evolution in metazoan germ line genes. <i>BMC Evolutionary Biology</i> , 2019, 19, 53.	3.2	8
67	Phylotranscriptomics Reveals Discordance in the Phylogeny of Hawaiian <i>Drosophila</i> and <i>Scaptomyza</i> (Diptera: Drosophilidae). <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	8
68	Genomics and genome editing techniques of crickets, an emerging model insect for biology and food science. <i>Current Opinion in Insect Science</i> , 2022, 50, 100881.	2.2	6
69	Gray anatomy: phylogenetic patterns of somatic gonad structures and reproductive strategies across the Bilateria. <i>Integrative and Comparative Biology</i> , 2007, 47, 420-426.	0.9	5
70	Long-Lost Relative Claims Orphan Gene: <i>oskar</i> in a Wasp. <i>PLoS Genetics</i> , 2011, 7, e1002045.	1.5	5
71	Hox genes limit germ cell formation in the short germ insect <i>Gryllus bimaculatus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16430-16435.	3.3	5
72	Injecting <i>Gryllus bimaculatus</i> Eggs. <i>Journal of Visualized Experiments</i> , 2019, .	0.2	5

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73	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.	3.5	5
74	Hold the germ cells, I'm on duty. <i>BioEssays</i> , 2004, 26, 1263-1267.	1.2	4
75	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, .	1.1	4
76	Ablation of a Single Cell From Eight-cell Embryos of the Amphipod Crustacean &Parhyale hawaiiensis&. <i>Journal of Visualized Experiments</i> , 2014, , .	0.2	3
77	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.	1.5	3
78	Distinct gene expression dynamics in germ line and somatic tissue during ovariole morphogenesis in <i>Drosophila melanogaster</i> . <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	0.8	3
79	Live long and prosper: Germline stem cell maintenance revisited (retrospective on DOI: 10.1093/emboj/cdaa112) <i>EMBO J</i> , 2021, 40, 1-14.	1.1	2
80	Editorial overview: Developmental mechanisms, patterning and evolution: New models for genetics and development – diversity at last. <i>Current Opinion in Genetics and Development</i> , 2016, 39, iv-vi.	1.5	2
81	Redefining Stem Cells and Assembling Germ Plasm. , 2010, , 360-397.		2
82	Cricket: The third domesticated insect. <i>Current Topics in Developmental Biology</i> , 2022, 147, 291-306.	1.0	2
83	04-P012 Germ line specification in the milkweed bug, <i>Oncopeltus fasciatus</i> (Hemiptera). <i>Mechanisms of Development</i> , 2009, 126, S110.	1.7	0
84	Editorial Overview: Development, regulation and evolution of organ systems. <i>Current Opinion in Insect Science</i> , 2016, 13, vii-ix.	2.2	0
85	In the Spotlight – Established researcher. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2021, 336, 589-590.	0.6	0
86	<i>JEZB</i> special issue on eggs. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2021, 336, 593-594.	0.6	0