

# Cassandra G Extavour

## List of Publications by Year in descending order

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84  
papers

4,180  
citations

122655

33  
h-index

133910

59  
g-index

122  
all docs

122  
docs citations

122  
times ranked

4928  
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.	2.6	693
2	The house spider genome reveals an ancient whole-genome duplication during arachnid evolution. <i>BMC Biology</i> , 2017, 15, 62.	3.9	301
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.	5.4	227
4	vasa and nanosexpression patterns in a sea anemone and the evolution of bilaterian germ cell specification mechanisms. <i>Evolution &amp; Development</i> , 2005, 7, 201-215.	2.1	135
5	Molecular evolutionary trends and feeding ecology diversification in the Hemiptera, anchored by the milkweed bug genome. <i>Genome Biology</i> , 2019, 20, 64.	9.2	123
6	The maternal and early embryonic transcriptome of the milkweed bug <i>Oncopeltus fasciatus</i> . <i>BMC Genomics</i> , 2011, 12, 61.	2.9	111
7	Are we there yet? Tracking the development of new model systems. <i>Trends in Genetics</i> , 2008, 24, 353-360.	6.9	110
8	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.	2.1	105
9	The significance and scope of evolutionary developmental biology: a vision for the 21st century. <i>Evolution &amp; Development</i> , 2015, 17, 198-219.	2.1	94
10	Embryonic development of the cricket <i>Gryllus bimaculatus</i> . <i>Developmental Biology</i> , 2016, 411, 140-156.	2.1	89
11	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.	2.9	85
12	Insect egg size and shape evolve with ecology but not developmental rate. <i>Nature</i> , 2019, 571, 58-62.	36.2	84
13	Construction of Z-scheme heterostructure with enhanced photocatalytic H <sub>2</sub> evolution for g-C <sub>3</sub> N <sub>4</sub> nanosheets via loading porous silicon. <i>Journal of Catalysis</i> , 2017, 356, 22-31.	6.5	74
14	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.	2.1	68
15	Germ Cell Specification Requires Zygotic Mechanisms Rather Than Germ Plasm in a Basally Branching Insect. <i>Current Biology</i> , 2013, 23, 835-842.	4.0	68
16	Bone Morphogenetic Protein (BMP) signaling in animal reproductive system development and function. <i>Developmental Biology</i> , 2017, 427, 258-269.	2.1	66
17	Hox gene expression in the harvestman <i>Phalangium opilio</i> reveals divergent patterning of the chelicerate opisthosoma. <i>Evolution &amp; Development</i> , 2012, 14, 450-463.	2.1	65
18	Hox gene duplications correlate with posterior heteronomy in scorpions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140661.	2.8	60

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19	A Comprehensive Reference Transcriptome Resource for the Common House Spider <i>Parasteatoda tepidariorum</i> . <i>PLoS ONE</i> , 2014, 9, e104885.	2.5	59
20	oskar Predates the Evolution of Germ Plasm in Insects. <i>Current Biology</i> , 2012, 22, 2278-2283.	4.0	58
21	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.	7.6	57
22	The roles of cell size and cell number in determining ovariole number in <i>Drosophila</i> . <i>Developmental Biology</i> , 2012, 363, 279-289.	2.1	56
23	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.	2.6	51
24	The Hippo Pathway Regulates Homeostatic Growth of Stem Cell Niche Precursors in the <i>Drosophila</i> Ovary. <i>PLoS Genetics</i> , 2015, 11, e1004962.	3.4	51
25	<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, 276-290.	2.1	51
26	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.	7.6	51
27	Insights into the genomic evolution of insects from cricket genomes. <i>Communications Biology</i> , 2021, 4, 733.	4.5	51
28	Convergent evolution of a reproductive trait through distinct developmental mechanisms in <i>Drosophila</i> . <i>Developmental Biology</i> , 2012, 372, 120-130.	2.1	44
29	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.	2.8	44
30	Evolution of the chelicera: a <i>dachshund</i> domain is retained in the deutocerebral appendage of Opiliones (Arthropoda, Chelicerata). <i>Evolution &amp; Development</i> , 2012, 14, 522-533.	2.1	42
31	<i>Distal-less</i> and <i>dachshund</i> pattern both plesiomorphic and apomorphic structures in chelicerates: <i>RNA</i> interference in the harvestman <i>Phalangium opilio</i> (Opiliones). <i>Evolution &amp; Development</i> , 2013, 15, 228-242.	2.1	42
32	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.	2.5	41
33	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.	2.6	38
34	Evidence against a germ plasm in the milkweed bug <i>Oncopeltus fasciatus</i> , a hemimetabolous insect. <i>Biology Open</i> , 2013, 2, 556-568.	1.2	35
35	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.	2.1	31
36	A dataset of egg size and shape from more than 6,700 insect species. <i>Scientific Data</i> , 2019, 6, 104.	5.4	31

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37	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.	2.8	29
38	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.	2.8	28
39	Selection shapes turnover and magnitude of sex-biased expression in <i>Drosophila</i> gonads. <i>BMC Evolutionary Biology</i> , 2019, 19, 60.	3.1	25
40	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.	1.9	24
41	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.	2.8	24
42	Bacterial contribution to genesis of the novel germ line determinant oskar. <i>ELife</i> , 2020, 9, .	5.9	24
43	Absence of a Faster-X Effect in Beetles ( <i>Tribolium</i> , Coleoptera). <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 1125-1136.	1.9	23
44	Rapid Evolution of Ovarian-Biased Genes in the Yellow Fever Mosquito ( <i>Aedes aegypti</i> ). <i>Genetics</i> , 2017, 206, 2119-2137.	2.9	22
45	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.	7.6	21
46	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.	3.2	21
47	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.	2.6	20
48	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.	4.0	19
49	Null hypotheses for developmental evolution. <i>Development (Cambridge)</i> , 2020, 147, .	2.6	19
50	Evolutionary dynamics of sex-biased genes expressed in cricket brains and gonads. <i>Journal of Evolutionary Biology</i> , 2021, 34, 1188-1211.	1.6	19
51	Convergent evolution of germ granule nucleators: A hypothesis. <i>Stem Cell Research</i> , 2017, 24, 188-194.	0.7	18
52	Expression and function of spineless orthologs correlate with distal deutocerebral appendage morphology across Arthropoda. <i>Developmental Biology</i> , 2017, 430, 224-236.	2.1	18
53	Subdivision of arthropod cap-n-collar expression domains is restricted to Mandibulata. <i>EvoDevo</i> , 2014, 5, 3.	3.3	17
54	Patterns of molecular evolution of the germ line specification gene oskar suggest that a novel domain may contribute to functional divergence in <i>Drosophila</i> . <i>Development Genes and Evolution</i> , 2014, 224, 65-77.	0.9	16

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55	A premeiotic function for <i>boule</i> in the planarian <i>Schmidtea mediterranea</i> . Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3509-18.	7.6	15
56	Topology-driven protein-protein interaction network analysis detects genetic sub-networks regulating reproductive capacity. ELife, 2020, 9, .	5.9	14
57	Refuting the hypothesis that the acquisition of germ plasm accelerates animal evolution. Nature Communications, 2016, 7, 12637.	13.2	13
58	Nuclear speed and cycle length co-vary with local density during syncytial blastoderm formation in a cricket. Nature Communications, 2022, 13, .	13.2	13
59	Identification of a putative germ plasm in the amphipod <i>Parhyale hawaiiensis</i> . EvoDevo, 2013, 4, 34.	3.3	12
60	Oogenesis: Making the Most of Meiosis. Current Biology, 2009, 19, R489-R491.	4.0	10
61	High-throughput live-imaging of embryos in microwell arrays using a modular specimen mounting system. Biology Open, 2018, 7, .	1.2	10
62	The Cricket <i>Gryllus bimaculatus</i> : Techniques for Quantitative and Functional Genetic Analyses of Cricket Biology. Results and Problems in Cell Differentiation, 2019, 68, 183-216.	0.0	10
63	Phylotranscriptomics Reveals Discordance in the Phylogeny of Hawaiian <i>Drosophila</i> and <i>Scaptomyza</i> (Diptera: Drosophilidae). Molecular Biology and Evolution, 2022, 39, .	9.2	10
64	Counting in oogenesis. Cell and Tissue Research, 2011, 344, 207-212.	3.0	9
65	Adaptation of codon and amino acid use for translational functions in highly expressed cricket genes. BMC Genomics, 2021, 22, 234.	2.9	9
66	Contrasting patterns of molecular evolution in metazoan germ line genes. BMC Evolutionary Biology, 2019, 19, 53.	3.1	8
67	Genomics and genome editing techniques of crickets, an emerging model insect for biology and food science. Current Opinion in Insect Science, 2022, 50, 100881.	4.6	6
68	Long-Lost Relative Claims Orphan Gene: <i>oskar</i> in a Wasp. PLoS Genetics, 2011, 7, e1002045.	3.4	5
69	Hox genes limit germ cell formation in the short germ insect <i>Gryllus bimaculatus</i> . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16430-16435.	7.6	5
70	Injecting <i>Gryllus bimaculatus</i> Eggs. Journal of Visualized Experiments, 2019, , .	0.3	5
71	Shared Cell Biological Functions May Underlie Pleiotropy of Molecular Interactions in the Germ Lines and Nervous Systems of Animals. Frontiers in Ecology and Evolution, 2020, 8, .	2.3	5
72	Evolution of a Cytoplasmic Determinant: Evidence for the Biochemical Basis of Functional Evolution of the Novel Germ Line Regulator <i>Oskar</i> . Molecular Biology and Evolution, 2021, 38, 5491-5513.	9.2	5

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73	Cricket: The third domesticated insect. <i>Current Topics in Developmental Biology</i> , 2022, 147, 291-306.	5.7	5
74	Hold the germ cells, I'm on duty. <i>BioEssays</i> , 2004, 26, 1263-1267.	2.6	4
75	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, .	1.9	4
76	<i>oskar</i> acts with the transcription factor Creb to regulate long-term memory in crickets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, .	7.6	4
77	Ablation of a Single Cell From Eight-cell Embryos of the Amphipod Crustacean <i>Parhyale hawaiiensis</i> . <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	3
78	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.	3.5	3
79	Live long and prosper: <i>Germ</i> line stem cell maintenance revisited (retrospective on DOI: 10.1093/emboj/cdaa114) <i>EMBO J</i> , 2015, 34, 2631-2641.	2.6	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.	3.4	2
81	Redefining Stem Cells and Assembling Germ Plasm. , 2010, , 360-397.		2
82	Editorial Overview: Development, regulation and evolution of organ systems. <i>Current Opinion in Insect Science</i> , 2016, 13, vii-ix.	4.6	0
83	<i>JEZB</i> special issue on eggs. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2021, 336, 593-594.	1.5	0
84	Gene protein sequence evolution can predict the rapid divergence of ovariole numbers in the <i>Drosophila melanogaster</i> subgroup. <i>Genome Biology and Evolution</i> , 0, , .	2.6	0