Cassandra G Extavour

List of Publications by Year
in descending order

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84	4,180	122655	133910
papers	citations	33 h-index	59 g-index

122	122	122	4928
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	oskaracts with the transcription factor Creb to regulate long-term memory in crickets. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	7.6	4
2	Distinct gene expression dynamics in germ line and somatic tissue during ovariole morphogenesis in Drosophila melanogaster. G3: Genes, Genomes, Genetics, 2022, 12, .	1.9	4
3	Phylotranscriptomics Reveals Discordance in the Phylogeny of Hawaiian Drosophila and Scaptomyza (Diptera: Drosophilidae). Molecular Biology and Evolution, 2022, 39, .	9.2	10
4	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
5	Cricket: The third domesticated insect. Current Topics in Developmental Biology, 2022, 147, 291-306.	5.7	5
6	Nuclear speed and cycle length co-vary with local density during syncytial blastoderm formation in a cricket. Nature Communications, 2022, 13, .	13.2	13
7	Adaptation of codon and amino acid use for translational functions in highly expressed cricket genes. BMC Genomics, 2021, 22, 234.	2.9	9
8	Repeated loss of variation in insect ovary morphology highlights the role of development in life-history evolution. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210150.	2.8	24
9	Insights into the genomic evolution of insects from cricket genomes. Communications Biology, 2021, 4, 733.	4.5	51
10	Evolutionary dynamics of sexâ€biased genes expressed in cricket brains and gonads. Journal of Evolutionary Biology, 2021, 34, 1188-1211.	1.6	19
11	Evolution of a Cytoplasmic Determinant: Evidence for the Biochemical Basis of Functional Evolution of the Novel Germ Line Regulator Oskar. Molecular Biology and Evolution, 2021, 38, 5491-5513.	9.2	5
12	JEZB special issue on eggs. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2021, 336, 593-594.	1.5	0
13	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
14	Null hypotheses for developmental evolution. Development (Cambridge), 2020, 147, .	2.6	19
15	Absence of a Faster-X Effect in Beetles (Tribolium, Coleoptera). G3: Genes, Genomes, Genetics, 2020, 10, 1125-1136.	1.9	23
16	Bacterial contribution to genesis of the novel germ line determinant oskar. ELife, 2020, 9, .	5.9	24
17	Topology-driven protein-protein interaction network analysis detects genetic sub-networks regulating reproductive capacity. ELife, 2020, 9, .	5.9	14
18	Hox genes limit germ cell formation in the short germ insect Gryllus bimaculatus. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16430-16435.	7.6	5

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19	Insect egg size and shape evolve with ecology but not developmental rate. Nature, 2019, 571, 58-62.	36.2	84
20	A dataset of egg size and shape from more than 6,700 insect species. Scientific Data, 2019, 6, 104.	5.4	31
21	Reproductive Capacity Evolves in Response to Ecology through Common Changes in Cell Number in Hawaiian Drosophila. Current Biology, 2019, 29, 1877-1884.e6.	4.0	19
22	Ancestral and offspring nutrition interact to affect life-history traits inDrosophila melanogaster. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20182778.	2.8	28
23	Contrasting patterns of molecular evolution in metazoan germ line genes. BMC Evolutionary Biology, 2019, 19, 53.	3.1	8
24	Molecular evolutionary trends and feeding ecology diversification in the Hemiptera, anchored by the milkweed bug genome. Genome Biology, 2019, 20, 64.	9.2	123
25	Selection shapes turnover and magnitude of sex-biased expression in Drosophila gonads. BMC Evolutionary Biology, 2019, 19, 60.	3.1	25
26	Injecting Gryllus bimaculatus Eggs. Journal of Visualized Experiments, 2019, , .	0.3	5
27	Evidence of multifaceted functions of codon usage in translation within the model beetle Tribolium castaneum. DNA Research, 2019, 26, 473-484.	3.5	3
28	The Cricket Gryllus bimaculatus: Techniques for Quantitative and Functional Genetic Analyses of Cricket Biology. Results and Problems in Cell Differentiation, 2019, 68, 183-216.	0.0	10
29	High-throughput live-imaging of embryos in microwell arrays using a modular specimen mounting system. Biology Open, 2018, 7, .	1.2	10
30	Rapid Evolution of Ovarian-Biased Genes in the Yellow Fever Mosquito (Aedes aegypti). Genetics, 2017, 206, 2119-2137.	2.9	22
31	Causes and evolutionary consequences of primordial germ-cell specification mode in metazoans. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5784-5791.	7.6	51
32	Bone Morphogenetic Protein (BMP) signaling in animal reproductive system development and function. Developmental Biology, 2017, 427, 258-269.	2.1	66
33	Convergent evolution of germ granule nucleators: A hypothesis. Stem Cell Research, 2017, 24, 188-194.	0.7	18
34	Expression and function of spineless orthologs correlate with distal deutocerebral appendage morphology across Arthropoda. Developmental Biology, 2017, 430, 224-236.	2.1	18
35	Construction of Z-scheme heterostructure with enhanced photocatalytic H2 evolution for g-C3N4 nanosheets via loading porous silicon. Journal of Catalysis, 2017, 356, 22-31.	6.5	74
36	The house spider genome reveals an ancient whole-genome duplication during arachnid evolution. BMC Biology, 2017, 15, 62.	3.9	301

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37	Expression-Linked Patterns of Codon Usage, Amino Acid Frequency, and Protein Length in the Basally Branching ArthropodParasteatoda tepidariorum. Genome Biology and Evolution, 2016, 8, 2722-2736.	2.6	20
38	Editorial overview: Developmental mechanisms, patterning and evolution: New models for genetics and development â€" diversity at last. Current Opinion in Genetics and Development, 2016, 39, iv-vi.	3.4	2
39	Refuting the hypothesis that the acquisition of germ plasm accelerates animal evolution. Nature Communications, 2016, 7, 12637.	13.2	13
40	Editorial Overview: Development, regulation and evolution of organ systems. Current Opinion in Insect Science, 2016, 13, vii-ix.	4.6	0
41	A premeiotic function for boule in the planarian Schmidtea mediterranea. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3509-18.	7.6	15
42	The transcriptional repressor Blimp-1 acts downstream of BMP signaling to generate primordial germ cells in the cricket Gryllus bimaculatus. Development (Cambridge), 2016, 143, 255-263.	2.6	38
43	Embryonic development of the cricket Gryllus bimaculatus. Developmental Biology, 2016, 411, 140-156.	2.1	89
44	Codon and Amino Acid Usage Are Shaped by Selection Across Divergent Model Organisms of the Pancrustacea. G3: Genes, Genomes, Genetics, 2015, 5, 2307-2321.	1.9	24
45	The Hippo Pathway Regulates Homeostatic Growth of Stem Cell Niche Precursors in the Drosophila Ovary. PLoS Genetics, 2015, 11, e1004962.	3.4	51
46	vasa and piwi are required for mitotic integrity in early embryogenesis in the spider Parasteatoda tepidariorum. Developmental Biology, 2015, 402, 276-290.	2.1	51
47	The significance and scope of evolutionary developmental biology: a vision for the 21st century. Evolution & Development, 2015, 17, 198-219.	2.1	94
48	A conserved genetic mechanism specifies deutocerebral appendage identity in insects and arachnids. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150698.	2.8	29
49	The First Myriapod Genome Sequence Reveals Conservative Arthropod Gene Content and Genome Organisation in the Centipede Strigamia maritima. PLoS Biology, 2014, 12, e1002005.	5.4	227
50	Ablation of a Single Cell From Eight-cell Embryos of the Amphipod Crustacean Parhyale hawaiensis. Journal of Visualized Experiments, 2014, , .	0.3	3
51	BMP signaling is required for the generation of primordial germ cells in an insect. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4133-4138.	7.6	57
52	Patterns of molecular evolution of the germ line specification gene oskar suggest that a novel domain may contribute to functional divergence in Drosophila. Development Genes and Evolution, 2014, 224, 65-77.	0.9	16
53	Subdivision of arthropod cap-n-collar expression domains is restricted to Mandibulata. EvoDevo, 2014, 5, 3.	3.3	17
54	Insulin signalling underlies both plasticity and divergence of a reproductive trait inDrosophila. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132673.	2.8	44

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55	Hox gene duplications correlate with posterior heteronomy in scorpions. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140661.	2.8	60
56	A Comprehensive Reference Transcriptome Resource for the Common House Spider Parasteatoda tepidariorum. PLoS ONE, 2014, 9, e104885.	2.5	59
57	Distalâ€less and dachshund pattern both plesiomorphic and apomorphic structures in chelicerates: <scp>RNA</scp> interference in the harvestman Phalangium opilio (<scp>O</scp>piliones). Evolution & Development, 2013, 15, 228-242.	2.1	42
58	Identification of a putative germ plasm in the amphipod Parhyale hawaiensis. EvoDevo, 2013, 4, 34.	3.3	12
59	Germ Cell Specification Requires Zygotic Mechanisms Rather Than Germ Plasm in a Basally Branching Insect. Current Biology, 2013, 23, 835-842.	4.0	68
60	Evidence against a germ plasm in the milkweed bugOncopeltus fasciatus, a hemimetabolous insect. Biology Open, 2013, 2, 556-568.	1.2	35
61	Live long and prosper: â€œ<scp>G</scp>ermline stem cell maintenance revisitedâ€•(retrospective on DOI:) Tj ETQq1 1 0.784314 rgB	2.6	2
62	Developmental Gene Discovery in a Hemimetabolous Insect: De Novo Assembly and Annotation of a Transcriptome for the Cricket Gryllus bimaculatus. PLoS ONE, 2013, 8, e61479.	2.5	41
63	ASGARD: an open-access database of annotated transcriptomes for emerging model arthropod species. Database: the Journal of Biological Databases and Curation, 2012, 2012, bas048-bas048.	3.2	21
64	Hox gene expression in the harvestman Phalangium opilio reveals divergent patterning of the chelicerate opisthosoma. Evolution & Development, 2012, 14, 450-463.	2.1	65
65	oskar Predates the Evolution of Germ Plasm in Insects. Current Biology, 2012, 22, 2278-2283.	4.0	58
66	Convergent evolution of a reproductive trait through distinct developmental mechanisms in Drosophila. Developmental Biology, 2012, 372, 120-130.	2.1	44
67	Evolution of the chelicera: a dachshund domain is retained in the deutocerebral appendage of Opiliones (Arthropoda, Chelicerata). Evolution & Development, 2012, 14, 522-533.	2.1	42
68	The roles of cell size and cell number in determining ovariole number in Drosophila. Developmental Biology, 2012, 363, 279-289.	2.1	56
69	Patterns of cell lineage, movement, and migration from germ layer specification to gastrulation in the amphipod crustacean Parhyale hawaiensis. Developmental Biology, 2011, 359, 110-123.	2.1	31
70	De novo assembly and characterization of a maternal and developmental transcriptome for the emerging model crustacean Parhyale hawaiensis. BMC Genomics, 2011, 12, 581.	2.9	85
71	Counting in oogenesis. Cell and Tissue Research, 2011, 344, 207-212.	3.0	9
72	The maternal and early embryonic transcriptome of the milkweed bug Oncopeltus fasciatus. BMC Genomics, 2011, 12, 61.	2.9	111

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73	Notch/Delta signalling is not required for segment generation in the basally branching insectGryllus bimaculatus. Development (Cambridge), 2011, 138, 5015-5026.	2.6	51
74	Long-Lost Relative Claims Orphan Gene: oskar in a Wasp. PLoS Genetics, 2011, 7, e1002045.	3.4	5
75	Redefining Stem Cells and Assembling Germ Plasm. , 2010, , 360-397.		2
76	Oogenesis: Making the Mos of Meiosis. Current Biology, 2009, 19, R489-R491.	4.0	10
77	Are we there yet? Tracking the development of new model systems. Trends in Genetics, 2008, 24, 353-360.	6.9	110
78	Vasa protein expression is restricted to the small micromeres of the sea urchin, but is inducible in other lineages early in development. Developmental Biology, 2008, 314, 276-286.	2.1	105
79	vasaandnanosexpression patterns in a sea anemone and the evolution of bilaterian germ cell specification mechanisms. Evolution & Development, 2005, 7, 201-215.	2.1	135
80	The fate of isolated blastomeres with respect to germ cell formation in the amphipod crustacean Parhyale hawaiensis. Developmental Biology, 2005, 277, 387-402.	2.1	68
81	Hold the germ cells, I'm on duty. BioEssays, 2004, 26, 1263-1267.	2.6	4
82	Mechanisms of germ cell specification across the metazoans: epigenesis and preformation. Development (Cambridge), 2003, 130, 5869-5884.	2.6	693
83	Germ cell selection in genetic mosaics in Drosophila melanogaster. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 11341-11346.	7.6	21
84	Gene protein sequence evolution can predict the rapid divergence of ovariole numbers in the Drosophila melanogaster subgroup. Genome Biology and Evolution, 0, , .	2.6	0