

Gregor Bucher

List of Publications by Year in descending order

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67
papers

5,073
citations

147566

31
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123241

61
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78
all docs

78
docs citations

78
times ranked

4087
citing authors

#	ARTICLE	IF	CITATIONS
1	Screens in fly and beetle reveal vastly divergent gene sets required for developmental processes. BMC Biology, 2022, 20, 38.	1.7	11
2	An atlas of the developing <i>Tribolium castaneum</i> brain reveals conservation in anatomy and divergence in timing to <i>Drosophila melanogaster</i> . Journal of Comparative Neurology, 2022, 530, 2335-2371.	0.9	8
3	The red flour beetle <i>T. castaneum</i> : elaborate genetic toolkit and unbiased large scale RNAi screening to study insect biology and evolution. EvoDevo, 2022, 13, .	1.3	18
4	The mustard leaf beetle, <i>Phaedon cochleariae</i> , as a screening model for exogenous RNAi-based control of coleopteran pests. Pesticide Biochemistry and Physiology, 2021, 176, 104870.	1.6	18
5	Shaking hands is a homeodomain transcription factor that controls axon outgrowth of central complex neurons in the insect model <i>Tribolium</i> . Development (Cambridge), 2021, 148, .	1.2	2
6	Identifying essential genes across eukaryotes by machine learning. NAR Genomics and Bioinformatics, 2021, 3, lqab110.	1.5	10
7	Establishing RNAi for basic research and pest control and identification of the most efficient target genes for pest control: a brief guide. Frontiers in Zoology, 2021, 18, 60.	0.9	21
8	six3 acts upstream of foxQ2 in labrum and neural development in the spider <i>Parasteatoda tepidariorum</i> . Development Genes and Evolution, 2020, 230, 95-104.	0.4	19
9	Enhanced genome assembly and a new official gene set for <i>Tribolium castaneum</i> . BMC Genomics, 2020, 21, 47.	1.2	84
10	Profiling of RNAi sensitivity after foliar dsRNA exposure in different European populations of Colorado potato beetle reveals a robust response with minor variability. Pesticide Biochemistry and Physiology, 2020, 166, 104569.	1.6	37
11	Immunohistochemistry and Fluorescent Whole Mount RNA In Situ Hybridization in Larval and Adult Brains of <i>Tribolium</i> . Methods in Molecular Biology, 2020, 2047, 233-251.	0.4	7
12	The Red Flour Beetle as Model for Comparative Neural Development: Genome Editing to Mark Neural Cells in <i>Tribolium</i> Brain Development. Methods in Molecular Biology, 2020, 2047, 191-217.	0.4	10
13	A Protocol for Double Fluorescent In Situ Hybridization and Immunohistochemistry for the Study of Embryonic Brain Development in <i>Tribolium castaneum</i> . Methods in Molecular Biology, 2020, 2047, 219-232.	0.4	7
14	Sequence heterochrony led to a gain of functionality in an immature stage of the central complex: A fly's beetle insight. PLoS Biology, 2020, 18, e3000881.	2.6	15
15	Title is missing!. , 2020, 18, e3000881.		0
16	Title is missing!. , 2020, 18, e3000881.		0
17	Title is missing!. , 2020, 18, e3000881.		0
18	Title is missing!. , 2020, 18, e3000881.		0

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19	Title is missing!. , 2020, 18, e3000881.		0
20	Title is missing!. , 2020, 18, e3000881.		0
21	A Large Scale Systemic RNAi Screen in the Red Flour Beetle<i>Tribolium castaneum</i>Identifies Novel Genes Involved in Insect Muscle Development. G3: Genes, Genomes, Genetics, 2019, 9, 1009-1026.	0.8	13
22	An ancestral apical brain region contributes to the central complex under the control of foxQ2 in the beetle Tribolium. ELife, 2019, 8, .	2.8	23
23	Double abdomen in a short-germ insect: Zygotic control of axis formation revealed in the beetle <i>Tribolium castaneum</i>. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1819-1824.	3.3	31
24	Expanded and updated data and a query pipeline for iBeetle-Base. Nucleic Acids Research, 2018, 46, D831-D835.	6.5	35
25	A morphological novelty evolved by co-option of a reduced gene regulatory network and gene recruitment in a beetle. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20181373.	1.2	22
26	<i>foxQ2</i> has a key role in anterior head and central brain patterning in insects. Development (Cambridge), 2017, 144, 2969-2981.	1.2	19
27	The Insect Ortholog of the Human Orphan Cytokine Receptor CRLF3 Is a Neuroprotective Erythropoietin Receptor. Frontiers in Molecular Neuroscience, 2017, 10, 223.	1.4	28
28	The house spider genome reveals an ancient whole-genome duplication during arachnid evolution. BMC Biology, 2017, 15, 62.	1.7	286
29	The insect central complex as model for heterochronic brain developmentâ€”background, concepts, and tools. Development Genes and Evolution, 2016, 226, 209-219.	0.4	30
30	Notch signaling induces cell proliferation in the labrum in a regulatory network different from the thoracic legs. Developmental Biology, 2015, 408, 164-177.	0.9	24
31	Large scale RNAi screen in Tribolium reveals novel target genes for pest control and the proteasome as prime target. BMC Genomics, 2015, 16, 674.	1.2	119
32	The iBeetle large-scale RNAi screen reveals gene functions for insect development and physiology. Nature Communications, 2015, 6, 7822.	5.8	139
33	iBeetle-Base: a database for RNAi phenotypes in the red flour beetle Tribolium castaneum. Nucleic Acids Research, 2015, 43, D720-D725.	6.5	124
34	Wnt/ β -catenin signaling integrates patterning and metabolism of the insect growth zone. Development (Cambridge), 2014, 141, 4740-4750.	1.2	43
35	Tc-knirps plays different roles in the specification of antennal and mandibular parasegment boundaries and is regulated by a pair-rule gene in the beetle Tribolium castaneum. BMC Developmental Biology, 2013, 13, 25.	2.1	12
36	RNAi phenotypes are influenced by the genetic background of the injected strain. BMC Genomics, 2013, 14, 5.	1.2	43

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37	Changes in anterior head patterning underlie the evolution of long germ embryogenesis. <i>Developmental Biology</i> , 2013, 374, 174-184.	0.9	33
38	TrOn: An Anatomical Ontology for the Beetle <i>Tribolium castaneum</i> . <i>PLoS ONE</i> , 2013, 8, e70695.	1.1	15
39	Asymmetrically expressed <i>axin</i> required for anterior development in <i>Tribolium</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7782-7786.	3.3	65
40	Heat shock-mediated misexpression of genes in the beetle <i>Tribolium castaneum</i> . <i>Development Genes and Evolution</i> , 2012, 222, 287-298.	0.4	39
41	Insect <i>Tc-six4</i> marks a unit with similarity to vertebrate placodes. <i>Developmental Biology</i> , 2011, 350, 208-216.	0.9	20
42	Candidate Gene Screen in the Red Flour Beetle <i>Tribolium</i> Reveals <i>Six3</i> as Ancient Regulator of Anterior Median Head and Central Complex Development. <i>PLoS Genetics</i> , 2011, 7, e1002416.	1.5	66
43	Genetics, development and composition of the insect head – A beetle’s view. <i>Arthropod Structure and Development</i> , 2010, 39, 399-410.	0.8	66
44	Functionality of the GAL4/UAS system in <i>Tribolium</i> requires the use of endogenous core promoters. <i>BMC Developmental Biology</i> , 2010, 10, 53.	2.1	90
45	<i>Six3</i> demarcates the anterior-most developing brain region in bilaterian animals. <i>EvoDevo</i> , 2010, 1, 14.	1.3	149
46	Formation of the insect head involves lateral contribution of the intercalary segment, which depends on <i>Tc-labial</i> function. <i>Developmental Biology</i> , 2010, 338, 107-116.	0.9	41
47	Insertional mutagenesis screening identifies the zinc finger homeodomain 2 (<i>zfh2</i>) gene as a novel factor required for embryonic leg development in <i>Tribolium castaneum</i> . <i>Development Genes and Evolution</i> , 2009, 219, 399-407.	0.4	6
48	Large-scale insertional mutagenesis of a coleopteran stored grain pest, the red flour beetle <i>Tribolium castaneum</i> , identifies embryonic lethal mutations and enhancer traps. <i>BMC Biology</i> , 2009, 7, 73.	1.7	93
49	The insect upper lip (labrum) is a nonsegmental appendage-like structure. <i>Evolution & Development</i> , 2009, 11, 480-488.	1.1	57
50	Probing the <i>Drosophila</i> retinal determination gene network in <i>Tribolium</i> (II): The <i>Pax6</i> genes <i>eyeless</i> and <i>twin of eyeless</i> . <i>Developmental Biology</i> , 2009, 333, 215-227.	0.9	56
51	The Red Flour Beetle, <i>Tribolium castaneum</i> (Coleoptera): A Model for Studies of Development and Pest Biology: Figure 1.. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.emo126.	0.2	119
52	Single and Double Whole-Mount In Situ Hybridization in Red Flour Beetle (<i>Tribolium</i>) Embryos. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5258-pdb.prot5258.	0.2	52
53	RNAi in the Red Flour Beetle (<i>Tribolium</i>). <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5256-pdb.prot5256.	0.2	73
54	Whole-mount in situ hybridization in the Rotifer <i>Brachionus plicatilis</i> representing a basal branch of lophotrochozoans. <i>Development Genes and Evolution</i> , 2008, 218, 445-451.	0.4	12

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55	The genome of the model beetle and pest <i>Tribolium castaneum</i> . <i>Nature</i> , 2008, 452, 949-955.	13.7	1,255
56	EST based phylogenomics of Syndermata questions monophyly of Eurotatoria. <i>BMC Evolutionary Biology</i> , 2008, 8, 345.	3.2	44
57	Exploring systemic RNA interference in insects: a genome-wide survey for RNAi genes in <i>Tribolium</i> . <i>Genome Biology</i> , 2008, 9, R10.	13.9	459
58	Divergent functions of orthodenticle, empty spiracles and buttonhead in early head patterning of the beetle <i>Tribolium castaneum</i> (Coleoptera). <i>Developmental Biology</i> , 2008, 317, 600-613.	0.9	98
59	The <i>Tribolium</i> ortholog of knirps and knirps-related is crucial for head segmentation but plays a minor role during abdominal patterning. <i>Developmental Biology</i> , 2008, 321, 284-294.	0.9	49
60	Maintenance of segment and appendage primordia by the <i>Tribolium</i> gene <i>knirps</i> . <i>Mechanisms of Development</i> , 2006, 123, 430-439.	1.7	22
61	Anterior localization of maternal mRNAs in a short germ insect lacking bicoid. <i>Evolution & Development</i> , 2005, 7, 142-149.	1.1	52
62	<i>Tribolium mae</i> expression suggests roles in terminal and midline patterning and in the specification of mesoderm. <i>Development Genes and Evolution</i> , 2005, 215, 478-481.	0.4	5
63	Breakdown of abdominal patterning in the <i>Tribolium</i> <i>Kruppel</i> mutant jaws. <i>Development (Cambridge)</i> , 2005, 132, 5353-5363.	1.2	85
64	Divergent segmentation mechanism in the short germ insect <i>Tribolium</i> revealed by giant expression and function. <i>Development (Cambridge)</i> , 2004, 131, 1729-1740.	1.2	112
65	Parental RNAi in <i>Tribolium</i> (Coleoptera). <i>Current Biology</i> , 2002, 12, R85-R86.	1.8	459
66	A system to efficiently maintain embryonic lethal mutations in the flour beetle <i>Tribolium castaneum</i> . <i>Development Genes and Evolution</i> , 1999, 209, 382-389.	0.4	37
67	Pair-rule and gap gene mutants in the flour beetle <i>Tribolium castaneum</i> . <i>Development Genes and Evolution</i> , 1998, 208, 558-568.	0.4	80