

Xiaolong Cao

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,303
citations

393982

19
h-index

377514

34
g-index

40
all docs

40
docs citations

40
times ranked

1396
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifaceted biological insights from a draft genome sequence of the tobacco hornworm moth, <i>Manduca sexta</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2016, 76, 118-147.	1.2	154
2	Overview of chitin metabolism enzymes in <i>Manduca sexta</i> : Identification, domain organization, phylogenetic analysis and gene expression. <i>Insect Biochemistry and Molecular Biology</i> , 2015, 62, 114-126.	1.2	95
3	Analysis of chitin-binding proteins from <i>Manduca sexta</i> provides new insights into evolution of peritrophin A-type chitin-binding domains in insects. <i>Insect Biochemistry and Molecular Biology</i> , 2015, 62, 127-141.	1.2	88
4	Sequence conservation, phylogenetic relationships, and expression profiles of nondigestive serine proteases and serine protease homologs in <i>Manduca sexta</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2015, 62, 51-63.	1.2	82
5	The immune signaling pathways of <i>Manduca sexta</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2015, 62, 64-74.	1.2	79
6	Structural features, evolutionary relationships, and transcriptional regulation of C-type lectin-domain proteins in <i>Manduca sexta</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2015, 62, 75-85.	1.2	65
7	Improved annotation of the insect vector of citrus greening disease: biocuration by a diverse genomics community. <i>Database: the Journal of Biological Databases and Curation</i> , 2017, 2017, .	1.4	62
8	Annotation and expression analysis of cuticular proteins from the tobacco hornworm, <i>Manduca sexta</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2015, 62, 100-113.	1.2	60
9	Serine protease-related proteins in the malaria mosquito, <i>Anopheles gambiae</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2017, 88, 48-62.	1.2	54
10	Building a platform for predicting functions of serine protease-related proteins in <i>Drosophila melanogaster</i> and other insects. <i>Insect Biochemistry and Molecular Biology</i> , 2018, 103, 53-69.	1.2	51
11	Phylogenetic analysis and expression profiling of the pattern recognition receptors: Insights into molecular recognition of invading pathogens in <i>Manduca sexta</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2015, 62, 38-50.	1.2	44
12	A genome-wide analysis of antimicrobial effector genes and their transcription patterns in <i>Manduca sexta</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2015, 62, 23-37.	1.2	43
13	Hemolymph protease-5 links the melanization and Toll immune pathways in the tobacco hornworm, <i>Manduca sexta</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23581-23587.	3.3	36
14	An analysis of 67 RNA-seq datasets from various tissues at different stages of a model insect, <i>Manduca sexta</i> . <i>BMC Genomics</i> , 2017, 18, 796.	1.2	34
15	Changes in the Plasma Proteome of <i>Manduca sexta</i> Larvae in Relation to the Transcriptome Variations after an Immune Challenge: Evidence for High Molecular Weight Immune Complex Formation. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 1176-1187.	2.5	31
16	Semi-quantitative analysis of changes in the plasma peptidome of <i>Manduca sexta</i> larvae and their correlation with the transcriptome variations upon immune challenge. <i>Insect Biochemistry and Molecular Biology</i> , 2014, 47, 46-54.	1.2	30
17	Identification and profiling of <i>Manduca sexta</i> microRNAs and their possible roles in regulating specific transcripts in fat body, hemocytes, and midgut. <i>Insect Biochemistry and Molecular Biology</i> , 2015, 62, 11-22.	1.2	26
18	The <i>Manduca sexta</i> serpinome: Analysis of serpin genes and proteins in the tobacco hornworm. <i>Insect Biochemistry and Molecular Biology</i> , 2018, 102, 21-30.	1.2	24

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19	Alignment of Cell Lineage Trees Elucidates Genetic Programs for the Development and Evolution of Cell Types. <i>IScience</i> , 2020, 23, 101273.	1.9	23
20	Inhibition of immune pathway-initiating hemolymph protease-14 by <i>Manduca sexta</i> serpin-12, a conserved mechanism for the regulation of melanization and Toll activation in insects. <i>Insect Biochemistry and Molecular Biology</i> , 2020, 116, 103261.	1.2	22
21	Whole Genome Sequencing and Assembly of the Asian Honey Bee <i>Apis dorsata</i> . <i>Genome Biology and Evolution</i> , 2020, 12, 3677-3683.	1.1	21
22	Integrated modeling of protein-coding genes in the <i>Manduca sexta</i> genome using RNA-Seq data from the biochemical model insect. <i>Insect Biochemistry and Molecular Biology</i> , 2015, 62, 2-10.	1.2	20
23	Polymorphic mobile element insertions contribute to gene expression and alternative splicing in human tissues. <i>Genome Biology</i> , 2020, 21, 185.	3.8	20
24	Serpin-9 and -13 regulate hemolymph proteases during immune responses of <i>Manduca sexta</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2017, 90, 71-81.	1.2	17
25	<i>Manduca sexta</i> serpin-12 controls the prophenoloxidase activation system in larval hemolymph. <i>Insect Biochemistry and Molecular Biology</i> , 2018, 99, 27-36.	1.2	16
26	Digestion-related proteins in the tobacco hornworm, <i>Manduca sexta</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2020, 126, 103457.	1.2	16
27	Whole-exome sequencing identifies genes associated with Tourette's disorder in multiplex families. <i>Molecular Psychiatry</i> , 2021, , .	4.1	16
28	Hemolymph proteins of <i>Anopheles gambiae</i> larvae infected by <i>Escherichia coli</i> . <i>Developmental and Comparative Immunology</i> , 2017, 74, 110-124.	1.0	11
29	Changes in composition and levels of hemolymph proteins during metamorphosis of <i>Manduca sexta</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2020, 127, 103489.	1.2	11
30	Solution Structure and Expression Profile of an Insect Cytokine: <i>Manduca sexta</i> Stress Response Peptide-2. <i>Protein and Peptide Letters</i> , 2016, 24, 3-11.	0.4	10
31	The Genome of <i>Rhyzopertha dominica</i> (Fab.) (Coleoptera: Bostrichidae): Adaptation for Success. <i>Genes</i> , 2022, 13, 446.	1.0	10
32	Predicting embryonic aneuploidy rate in IVF patients using whole-exome sequencing. <i>Human Genetics</i> , 2022, 141, 1615-1627.	1.8	9
33	The three-dimensional structure and recognition mechanism of <i>Manduca sexta</i> peptidoglycan recognition protein-1. <i>Insect Biochemistry and Molecular Biology</i> , 2019, 108, 44-52.	1.2	8
34	CHAPTER 15. Structure and Function of Stress-Responsive Peptides in Insects. <i>RSC Drug Discovery Series</i> , 0, , 438-451.	0.2	8
35	PrecisionProDB: improving the proteomics performance for precision medicine. <i>Bioinformatics</i> , 2021, 37, 3361-3363.	1.8	4
36	Integrated Modeling of Structural Genes Using MCuNovo. <i>Methods in Molecular Biology</i> , 2019, 1858, 45-57.	0.4	2

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37	Expression and Characterization of <i>Manduca sexta</i> Stress Responsive Peptide-1; An Inducer of Antimicrobial Peptide Synthesis. <i>Biochemistry and Molecular Biology</i> , 2019, 4, 42.	0.2	1
38	Identification and characterization of serpin genes in <i>Manduca sexta</i> . <i>FASEB Journal</i> , 2018, 32, .	0.2	0