Haobo Jiang

List of Publications by Year
in descending order

124 papers	10,745 citations	31902 53 h-index	32761 100 g-index
126 all docs	126 docs citations	126 times ranked	6784 citing authors

#	Article	IF	Citations
1	The genome of the model beetle and pest Tribolium castaneum. Nature, 2008, 452, 949-955.	13.7	1,255
2	Innate immune responses of a lepidopteran insect, Manduca sexta. Immunological Reviews, 2004, 198, 97-105.	2.8	599
3	Evolutionary Dynamics of Immune-Related Genes and Pathways in Disease-Vector Mosquitoes. Science, 2007, 316, 1738-1743.	6.0	550
4	The clip-domain family of serine proteinases in arthropods. Insect Biochemistry and Molecular Biology, 2000, 30, 95-105.	1.2	358
5	Serine proteases and their homologs in the Drosophila melanogaster genome: an initial analysis of sequence conservation and phylogenetic relationships. Gene, 2003, 304, 117-131.	1.0	297
6	Comparative genomic analysis of the Tribolium immune system. Genome Biology, 2007, 8, R177.	13.9	271
7	A serpin mutant links Toll activation to melanization in the host defence of Drosophila. EMBO Journal, 2002, 21, 6330-6337.	3.5	244
8	Immunity in Lepidopteran Insects. Advances in Experimental Medicine and Biology, 2010, 708, 181-204.	0.8	229
9	Nonproteolytic serine proteinase homologs are involved in prophenoloxidase activation in the tobacco hornworm, Manduca sexta. Insect Biochemistry and Molecular Biology, 2003, 33, 197-208.	1.2	220
10	Prophenoloxidase-activating proteinase-3 (PAP-3) from Manduca sexta hemolymph: a clip-domain serine proteinase regulated by serpin-1J and serine proteinase homologs. Insect Biochemistry and Molecular Biology, 2003, 33, 1049-1060.	1.2	201
11	Prophenoloxidase-activating Proteinase-2 from Hemolymph ofManduca sexta. Journal of Biological Chemistry, 2003, 278, 3552-3561.	1.6	194
12	Clip-domain serine proteases as immune factors in insect hemolymph. Current Opinion in Insect Science, 2015, 11, 47-55.	2.2	194
13	Oxidative conjugation of catechols with proteins in insect skeletal systems. Tetrahedron, 2001, 57, 385-392.	1.0	193
14	Deep sequencing of small RNA libraries reveals dynamic regulation of conserved and novel microRNAs and microRNA-stars during silkworm development. BMC Genomics, 2010, 11, 52.	1.2	178
15	Comparative analysis of serine protease-related genes in the honey bee genome: possible involvement in embryonic development and innate immunity. Insect Molecular Biology, 2006, 15, 603-614.	1.0	170
16	Characterization of cDNAs encoding putative laccase-like multicopper oxidases and developmental expression in the tobacco hornworm, Manduca sexta, and the malaria mosquito, Anopheles gambiae. Insect Biochemistry and Molecular Biology, 2004, 34, 29-41.	1.2	162
17	Manduca sexta Serpin-3 Regulates Prophenoloxidase Activation in Response to Infection by Inhibiting Prophenoloxidase-activating Proteinases. Journal of Biological Chemistry, 2003, 278, 46556-46564.	1.6	161
18	Broad-spectrum antimicrobial activity of the reactive compounds generated in vitro by Manduca sexta phenoloxidase. Insect Biochemistry and Molecular Biology, 2007, 37, 952-959.	1.2	160

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19	Crystal structure of Manduca sexta prophenoloxidase provides insights into the mechanism of type 3 copper enzymes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17002-17006.	3.3	159
20	Subunit Composition of Pro-phenol Oxidase from Manduca sexta: Molecular Cloning of Subunit ProPO-p1. Insect Biochemistry and Molecular Biology, 1997, 27, 835-850.	1.2	156
21	Multifaceted biological insights from a draft genome sequence of the tobacco hornworm moth, Manduca sexta. Insect Biochemistry and Molecular Biology, 2016, 76, 118-147.	1.2	154
22	Functions of Manduca sexta Hemolymph Proteinases HP6 and HP8 in Two Innate Immune Pathways. Journal of Biological Chemistry, 2009, 284, 19716-19726.	1.6	149
23	Characterization and Functional Analysis of 12 Naturally Occurring Reactive Site Variants of Serpin-1 from Manduca sexta. Journal of Biological Chemistry, 1997, 272, 1082-1087.	1.6	132
24	Î²-1,3-Glucan recognition protein-2 (Î²GRP-2) from Manduca sexta: an acute-phase protein that binds Î²-1,3-glucan and lipoteichoic acid to aggregate fungi and bacteria and stimulate prophenoloxidase activation. Insect Biochemistry and Molecular Biology, 2004, 34, 89-100.	1.2	120
25	Identification of Plasma Proteases Inhibited by Manduca sexta Serpin-4 and Serpin-5 and Their Association with Components of the Prophenol Oxidase Activation Pathway. Journal of Biological Chemistry, 2005, 280, 14932-14942.	1.6	115
26	Cholinergic and non-cholinergic functions of two acetylcholinesterase genes revealed by gene-silencing in Tribolium castaneum. Scientific Reports, 2012, 2, 288.	1.6	113
27	Proteolytic activation and function of the cytokine SpÃtzle in the innate immune response of a lepidopteran insect, Manducaâ€ƒsexta. FEBS Journal, 2010, 277, 148-162.	2.2	105
28	Manduca sexta Hemolymph Proteinase 21 Activates Prophenoloxidase-activating Proteinase 3 in an Insect Innate Immune Response Proteinase Cascade. Journal of Biological Chemistry, 2007, 282, 11742-11749.	1.6	104
29	Manduca sexta prophenoloxidase (proPO) activation requires proPO-activating proteinase (PAP) and serine proteinase homologs (SPHs) simultaneously. Insect Biochemistry and Molecular Biology, 2005, 35, 241-248.	1.2	102
30	Antiviral, anti-parasitic, and cytotoxic effects of 5,6-dihydroxyindole (DHI), a reactive compound generated by phenoloxidase during insect immune response. Insect Biochemistry and Molecular Biology, 2011, 41, 645-652.	1.2	101
31	A comparative analysis of serpin genes in the silkworm genome. Genomics, 2009, 93, 367-375.	1.3	100
32	High throughput profiling of the cotton bollworm Helicoverpa armigera immunotranscriptome during the fungal and bacterial infections. BMC Genomics, 2015, 16, 321.	1.2	100
33	Interaction of Î²-1,3-Glucan with Its Recognition Protein Activates Hemolymph Proteinase 14, an Initiation Enzyme of the Prophenoloxidase Activation System in Manduca sexta. Journal of Biological Chemistry, 2006, 281, 9271-9278.	1.6	98
34	Manduca sexta Serpin-6 Regulates Immune Serine Proteinases PAP-3 and HP8. Journal of Biological Chemistry, 2005, 280, 14341-14348.	1.6	95
35	Overview of chitin metabolism enzymes in Manduca sexta: Identification, domain organization, phylogenetic analysis and gene expression. Insect Biochemistry and Molecular Biology, 2015, 62, 114-126.	1.2	95
36	Negative regulation of prophenoloxidase (proPO) activation by a clip-domain serine proteinase homolog (SPH) from endoparasitoid venom. Insect Biochemistry and Molecular Biology, 2004, 34, 477-483.	1.2	85

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37	Organization of Serpin Gene-1 from Manduca sexta. Journal of Biological Chemistry, 1996, 271, 28017-28023.	1.6	82
38	Sequence conservation, phylogenetic relationships, and expression profiles of nondigestive serine proteases and serine protease homologs in Manduca sexta. Insect Biochemistry and Molecular Biology, 2015, 62, 51-63.	1.2	82
39	Reconstitution of a branch of the Manduca sexta prophenoloxidase activation cascade in vitro: Snake-like hemolymph proteinase 21 (HP21) cleaved by HP14 activates prophenoloxidase-activating proteinase-2 precursor. Insect Biochemistry and Molecular Biology, 2007, 37, 1015-1025.	1.2	80
40	The immune signaling pathways of Manduca sexta. Insect Biochemistry and Molecular Biology, 2015, 62, 64-74.	1.2	79
41	Biological activity of Manduca sexta paralytic and plasmatocyte spreading peptide and primary structure of its hemolymph precursor. Insect Biochemistry and Molecular Biology, 1999, 29, 1075-1086.	1.2	77
42	A short-type peptidoglycan recognition protein from the silkworm: Expression, characterization and involvement in the prophenoloxidase activation pathway. Developmental and Comparative Immunology, 2014, 45, 1-9.	1.0	75
43	Molecular identification of a bevy of serine proteinases in Manduca sexta hemolymph. Insect Biochemistry and Molecular Biology, 2005, 35, 931-943.	1.2	72
44	The structure of active serpin 1K from Manduca sexta. Structure, 1999, 7, 103-109.	1.6	71
45	Prophenoloxidase (proPO) activation in Manduca sexta: an analysis of molecular interactions among proPO, proPO-activating proteinase-3, and a cofactor. Insect Biochemistry and Molecular Biology, 2004, 34, 731-742.	1.2	71
46	The Viral Protein Egf1.0 Is a Dual Activity Inhibitor of Prophenoloxidase-activating Proteinases 1 and 3 from Manduca sexta. Journal of Biological Chemistry, 2008, 283, 21325-21333.	1.6	71
47	A Pattern Recognition Serine Proteinase Triggers the Prophenoloxidase Activation Cascade in the Tobacco Hornworm, Manduca sexta. Journal of Biological Chemistry, 2004, 279, 34101-34106.	1.6	68
48	Purification and characterization of Manduca sexta serpin-6: a serine proteinase inhibitor that selectively inhibits prophenoloxidase-activating proteinase-3. Insect Biochemistry and Molecular Biology, 2004, 34, 387-395.	1.2	66
49	Structural features, evolutionary relationships, and transcriptional regulation of C-type lectin-domain proteins in Manduca sexta. Insect Biochemistry and Molecular Biology, 2015, 62, 75-85.	1.2	65
50	Pyrosequence analysis of expressed sequence tags for Manduca sexta hemolymph proteins involved in immune responses. Insect Biochemistry and Molecular Biology, 2008, 38, 677-682.	1.2	64
51	Improved annotation of the insect vector of citrus greening disease: biocuration by a diverse genomics community. Database: the Journal of Biological Databases and Curation, 2017, 2017, .	1.4	62
52	Annotation and expression analysis of cuticular proteins from the tobacco hornworm, Manduca sexta. Insect Biochemistry and Molecular Biology, 2015, 62, 100-113.	1.2	60
53	Identification and developmental profiling of conserved and novel microRNAs in Manduca sexta. Insect Biochemistry and Molecular Biology, 2012, 42, 381-395.	1.2	58
54	Proteolytic activation of pro-spÃtzle is required for the induced transcription of antimicrobial peptide genes in lepidopteran insects. Developmental and Comparative Immunology, 2007, 31, 1002-1012.	1.0	57

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55	Involvement of Manduca sexta peptidoglycan recognition protein-1 in the recognition of bacteria and activation of prophenoloxidase system. Insect Biochemistry and Molecular Biology, 2010, 40, 487-495.	1.2	57
56	Recognition of microbial molecular patterns and stimulation of prophenoloxidase activation by a Î²-1,3-glucanase-related protein in Manduca sexta larval plasma. Insect Biochemistry and Molecular Biology, 2011, 41, 322-331.	1.2	54
57	Serine protease-related proteins in the malaria mosquito, Anopheles gambiae. Insect Biochemistry and Molecular Biology, 2017, 88, 48-62.	1.2	54
58	A comprehensive analysis of the Manduca sexta immunotranscriptome. Developmental and Comparative Immunology, 2013, 39, 388-398.	1.0	52
59	Building a platform for predicting functions of serine protease-related proteins in Drosophila melanogaster and other insects. Insect Biochemistry and Molecular Biology, 2018, 103, 53-69.	1.2	51
60	Molecular cloning of cDNAs for two pro-phenol oxidase subunits from the malaria vector, Anopheles gambiae1The sequences have been deposited in GenBank under accession numbers AF004915 and AF004916.1. Insect Biochemistry and Molecular Biology, 1997, 27, 693-699.	1.2	50
61	Identification of conserved and novel microRNAs in Manduca sexta and their possible roles in the expression regulation of immunity-related genes. Insect Biochemistry and Molecular Biology, 2014, 47, 12-22.	1.2	50
62	Hemolymph Proteinases in Immune Responses of Manduca sexta. Advances in Experimental Medicine and Biology, 2001, 484, 319-328.	0.8	50
63	A bacteria-induced, intracellular serpin in granular hemocytes of Manduca sexta. Insect Biochemistry and Molecular Biology, 2001, 31, 887-898.	1.2	49
64	Manduca sexta proprophenoloxidase activating proteinase-3 (PAP3) stimulates melanization by activating proPAP3, proSPHs, and proPOs. Insect Biochemistry and Molecular Biology, 2014, 50, 82-91.	1.2	47
65	Expression of Manduca sexta serine proteinase homolog precursors in insect cells and their proteolytic activation. Insect Biochemistry and Molecular Biology, 2008, 38, 89-98.	1.2	46
66	Phylogenetic analysis and expression profiling of the pattern recognition receptors: Insights into molecular recognition of invading pathogens in Manduca sexta. Insect Biochemistry and Molecular Biology, 2015, 62, 38-50.	1.2	44
67	A genome-wide analysis of antimicrobial effector genes and their transcription patterns in Manduca sexta. Insect Biochemistry and Molecular Biology, 2015, 62, 23-37.	1.2	43
68	The biochemical basis of antimicrobial responses in Manduca sexta. Insect Science, 2008, 15, 53-66.	1.5	42
69	Manduca sexta prophenoloxidase activating proteinase-1 (PAP-1) gene: Organization, expression, and regulation by immune and hormonal signals. Insect Biochemistry and Molecular Biology, 2005, 35, 627-636.	1.2	40
70	Pyrosequencing-based expression profiling and identification of differentially regulated genes from Manduca sexta, a lepidopteran model insect. Insect Biochemistry and Molecular Biology, 2011, 41, 733-746.	1.2	40
71	DaTrypsin, a novel clip-domain serine proteinase gene up-regulated during winter and summer diapauses of the onion maggot, Delia antiqua. Gene, 2005, 347, 115-123.	1.0	39
72	Hemolymph protease-5 links the melanization and Toll immune pathways in the tobacco hornworm, Manduca sexta. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23581-23587.	3.3	36

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73	An analysis of 67 RNA-seq datasets from various tissues at different stages of a model insect, Manduca sexta. BMC Genomics, 2017, 18, 796.	1.2	34
74	Regulation of phenoloxidase activity by high- and low-molecular-weight inhibitors from the larval hemolymph of Manduca sexta. Insect Biochemistry and Molecular Biology, 2007, 37, 478-485.	1.2	33
75	Solution structure, antibacterial activity, and expression profile of Manduca sexta moricin. Journal of Peptide Science, 2008, 14, 855-863.	0.8	33
76	The Solution Structure of Clip Domains from Manduca sexta Prophenoloxidase Activating Proteinase-2. Biochemistry, 2007, 46, 11431-11439.	1.2	32
77	Changes in the Plasma Proteome of Manduca sexta Larvae in Relation to the Transcriptome Variations after an Immune Challenge: Evidence for High Molecular Weight Immune Complex Formation. Molecular and Cellular Proteomics, 2016, 15, 1176-1187.	2.5	31
78	The structure of a prophenoloxidase (PPO) from Anopheles gambiae provides new insights into the mechanism of PPO activation. BMC Biology, 2016, 14, 2.	1.7	31
79	Expression and in vitro activation of Manduca sexta prophenoloxidase-activating proteinase-2 precursor (proPAP-2) from baculovirus-infected insect cells. Protein Expression and Purification, 2003, 29, 235-243.	0.6	30
80	Semi-quantitative analysis of changes in the plasma peptidome of Manduca sexta larvae and their correlation with the transcriptome variations upon immune challenge. Insect Biochemistry and Molecular Biology, 2014, 47, 46-54.	1.2	30
81	Binding properties of the regulatory domains in Manduca sexta hemolymph proteinase-14, an initiation enzyme of the prophenoloxidase activation system. Developmental and Comparative Immunology, 2010, 34, 316-322.	1.0	29
82	Functional analysis of four processing products from multiple precursors encoded by a lebocin-related gene from Manduca sexta. Developmental and Comparative Immunology, 2010, 34, 638-647.	1.0	29
83	Novel Selective and Irreversible Mosquito Acetylcholinesterase Inhibitors for Controlling Malaria and Other Mosquito-Borne Diseases. Scientific Reports, 2013, 3, 1068.	1.6	29
84	Expression and Purification of Manduca sexta Prophenoloxidase-Activating Proteinase Precursor (proPAP) from Baculovirus-Infected Insect Cells. Protein Expression and Purification, 2001, 23, 328-337.	0.6	28
85	In search of a function of Manduca sexta hemolymph protease-1 in the innate immune system. Insect Biochemistry and Molecular Biology, 2016, 76, 1-10.	1.2	27
86	Identification and profiling of Manduca sexta microRNAs and their possible roles in regulating specific transcripts in fat body, hemocytes, and midgut. Insect Biochemistry and Molecular Biology, 2015, 62, 11-22.	1.2	26
87	Improving the baculovirus expression vector system with vankyrinâ€enhanced technology. Biotechnology Progress, 2017, 33, 1496-1507.	1.3	26
88	Purification and characterization of Manduca sexta prophenoloxidase-activating proteinase-1, an enzyme involved in insect immune responses. Protein Expression and Purification, 2005, 39, 261-268.	0.6	25
89	A positive feedback mechanism in the Manduca sexta prophenoloxidase activation system. Insect Biochemistry and Molecular Biology, 2008, 38, 763-769.	1.2	25
90	Prophenoloxidase activation and antimicrobial peptide expression induced by the recombinant microbe binding protein of Manduca sexta. Insect Biochemistry and Molecular Biology, 2017, 83, 35-43.	1.2	25

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91	Recombinant expression and biochemical characterization of the catalytic domain of acetylcholinesterase-1 from the African malaria mosquito, Anopheles gambiae. Insect Biochemistry and Molecular Biology, 2009, 39, 646-653.	1.2	24
92	The Manduca sexta serpinome: Analysis of serpin genes and proteins in the tobacco hornworm. Insect Biochemistry and Molecular Biology, 2018, 102, 21-30.	1.2	24
93	Immune challenge induces N-terminal cleavage of the Drosophila serpin Necrotic. Insect Biochemistry and Molecular Biology, 2006, 36, 37-46.	1.2	23
94	Manduca sexta hemolymph protease-1, activated byÂanÂunconventional non-proteolytic mechanism, mediatesÂimmuneÂresponses. Insect Biochemistry and Molecular Biology, 2017, 84, 23-31.	1.2	23
95	Inhibition of immune pathway-initiating hemolymph protease-14 by Manduca sexta serpin-12, a conserved mechanism for the regulation of melanization and Toll activation in insects. Insect Biochemistry and Molecular Biology, 2020, 116, 103261.	1.2	22
96	Integrated modeling of protein-coding genes in the Manduca sexta genome using RNA-Seq data from the biochemical model insect. Insect Biochemistry and Molecular Biology, 2015, 62, 2-10.	1.2	20
97	Manduca sexta hemolymph protease-2 (HP2) activated by HP14 generates prophenoloxidase-activating protease-2 (PAP2) in wandering larvae and pupae. Insect Biochemistry and Molecular Biology, 2018, 101, 57-65.	1.2	18
98	An expansion of the dual clip-domain serine proteinase family in Manduca sexta: Gene organization, expression, and evolution of prophenoloxidase-activating proteinase-2, hemolymph proteinase 12, and other related proteinases. Genomics, 2006, 87, 399-409.	1.3	17
99	Serpin-9 and -13 regulate hemolymph proteases during immune responses of Manduca sexta. Insect Biochemistry and Molecular Biology, 2017, 90, 71-81.	1.2	17
100	Clip domain prophenoloxidase activating protease is required for Ostrinia furnacalis GuenÃ©e to defend against bacterial infection. Developmental and Comparative Immunology, 2018, 87, 204-215.	1.0	17
101	Manduca sexta serpin-12 controls the prophenoloxidase activation system in larval hemolymph. Insect Biochemistry and Molecular Biology, 2018, 99, 27-36.	1.2	16
102	Digestion-related proteins in the tobacco hornworm, Manduca sexta. Insect Biochemistry and Molecular Biology, 2020, 126, 103457.	1.2	16
103	Biochemical properties, expression profiles, and tissue localization ofÂorthologous acetylcholinesterase-2 in the mosquito, Anopheles gambiae. Insect Biochemistry and Molecular Biology, 2013, 43, 260-271.	1.2	13
104	Heterologous expression, purification, and biochemical characterization of a greenbug (<i>Schizaphis) Tj ETQq0 0 0 rgBT /Overlock 10 T Biochemical and Molecular Toxicology, 2010, 24, 51-59.	1.4	12
105	Proteolytic Activation of Prophenoloxidase in an Insect Manduca Sexta. Advances in Experimental Medicine and Biology, 2001, 484, 313-317.	0.8	11
106	Hemolymph proteins of Anopheles gambiae larvae infected by Escherichia coli. Developmental and Comparative Immunology, 2017, 74, 110-124.	1.0	11
107	Changes in composition and levels of hemolymph proteins during metamorphosis of Manduca sexta. Insect Biochemistry and Molecular Biology, 2020, 127, 103489.	1.2	11
108	Manipulation of the silkworm immune system by a metalloprotease from the pathogenic bacterium Pseudomonas aeruginosa. Developmental and Comparative Immunology, 2019, 90, 176-185.	1.0	10

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109	Solution Structure and Expression Profile of an Insect Cytokine: Manduca sexta Stress Response Peptide-2. Protein and Peptide Letters, 2016, 24, 3-11.	0.4	10
110	The Genome of Rhyzopertha dominica (Fab.) (Coleoptera: Bostrichidae): Adaptation for Success. Genes, 2022, 13, 446.	1.0	10
111	Cleavage activation and functional comparison of Manduca sexta serine protease homologs SPH1a, SPH1b, SPH4, and SPH101 in conjunction with SPH2. Insect Biochemistry and Molecular Biology, 2022, 144, 103762.	1.2	10
112	The three-dimensional structure and recognition mechanism of Manduca sexta peptidoglycan recognition protein-1. Insect Biochemistry and Molecular Biology, 2019, 108, 44-52.	1.2	8
113	CHAPTER 15. Structure and Function of Stress-Responsive Peptides in Insects. RSC Drug Discovery Series, 0, , 438-451.	0.2	8
114	Modulation of Anopheles stephensi Gene Expression by Nitroquine, an Antimalarial Drug against Plasmodium yoelii Infection in the Mosquito. PLoS ONE, 2014, 9, e89473.	1.1	7
115	The Micrococcus luteus infection activates a novel melanization pathway of cSP10, cSP4, and cSP8 in Helicoverpa armigera. Insect Biochemistry and Molecular Biology, 2022, 147, 103775.	1.2	7
116	Distinct Responses of Thitarodes xiaojinensis Î²-1,3-Glucan Recognition Protein-1 and Immulectin-8 to Ophiocordyceps sinensis and Cordyceps militaris Infection. Journal of Immunology, 2021, 207, 200-209.	0.4	5
117	Nitric Oxide-Induced Calcineurin A Mediates Antimicrobial Peptide Production Through the IMD Pathway. Frontiers in Immunology, 0, 13, .	2.2	5
118	Engineering Dynamic Surface Peptide Networks on Butyrylcholinesterase_{G117H} for Enhanced Organophosphosphorus Anticholinesterase Catalysis. Chemical Research in Toxicology, 2019, 32, 1801-1810.	1.7	3
119	Characterization and functional analysis of a Relish gene from the Asian corn borer, Ostrinia furnacalis (GuenÃ©e). Archives of Insect Biochemistry and Physiology, 2021, 108, e21841.	0.6	3
120	Integrated Modeling of Structural Genes Using MCuNovo. Methods in Molecular Biology, 2019, 1858, 45-57.	0.4	2
121	Expression and Characterization of <i>Manduca sexta</i> Stress Responsive Peptide-1; An Inducer of Antimicrobial Peptide Synthesis. Biochemistry and Molecular Biology, 2019, 4, 42.	0.2	1
122	Manduca sexta hemolymph protease HP6 functions in innate immune responses. FASEB Journal, 2007, 21, A649.	0.2	0
123	Molecular Cloning and Characterizations of Manduca sexta SpÃtzle, a possible ligand of Toll. FASEB Journal, 2008, 22, 820.4.	0.2	0
124	Identification and characterization of serpin genes in Manduca sexta. FASEB Journal, 2018, 32, .	0.2	0