Subba Reddy Palli

List of Publications by Year
in descending order

236 papers	12,467 citations	20759 60 h-index	37111 96 g-index
250 all docs	250 docs citations	250 times ranked	6540 citing authors

#	Article	IF	Citations
1	The Juvenile Hormone Signaling Pathway in Insect Development. Annual Review of Entomology, 2013, 58, 181-204.	5.7	659
2	Ingested RNA interference for managing the populations of the Colorado potato beetle, Leptinotarsa decemlineata. Pest Management Science, 2011, 67, 175-182.	1.7	342
3	Mechanisms, Applications, and Challenges of Insect RNA Interference. Annual Review of Entomology, 2020, 65, 293-311.	5.7	308
4	A brain-specific cytochrome P450 responsible for the majority of deltamethrin resistance in the QTC279 strain of Tribolium castaneum. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8557-8562.	3.3	258
5	Genome of the Asian longhorned beetle (Anoplophora glabripennis), a globally significant invasive species, reveals key functional and evolutionary innovations at the beetleâ€“plant interface. Genome Biology, 2016, 17, 227.	3.8	244
6	Hormonal regulation of the humoral innate immune response inDrosophila melanogaster. Journal of Experimental Biology, 2008, 211, 2712-2724.	0.8	216
7	A model species for agricultural pest genomics: the genome of the Colorado potato beetle, Leptinotarsa decemlineata (Coleoptera: Chrysomelidae). Scientific Reports, 2018, 8, 1931.	1.6	215
8	Reduced stability and intracellular transport of dsRNA contribute to poor RNAi response in lepidopteran insects. RNA Biology, 2016, 13, 656-669.	1.5	194
9	Unique features of a global human ectoparasite identified through sequencing of the bed bug genome. Nature Communications, 2016, 7, 10165.	5.8	184
10	Steroid Receptor Co-activator Is Required for Juvenile Hormone Signal Transduction through a bHLH-PAS Transcription Factor, Methoprene Tolerant. Journal of Biological Chemistry, 2011, 286, 8437-8447.	1.6	181
11	Juvenile Hormone Regulates Vitellogenin Gene Expression through Insulin-like Peptide Signaling Pathway in the Red Flour Beetle, Tribolium castaneum. Journal of Biological Chemistry, 2011, 286, 41924-41936.	1.6	177
12	Cloning of an ecdysone receptor homolog from Manduca sexta and the developmental profile of its mRNA in Wings. Insect Biochemistry and Molecular Biology, 1995, 25, 845-856.	1.2	170
13	Widespread distribution of knockdown resistance mutations in the bed bug, Cimex lectularius (Hemiptera: Cimicidae), populations in the United States. Archives of Insect Biochemistry and Physiology, 2010, 73, 245-257.	0.6	164
14	Juvenile hormone regulation of vitellogenin synthesis in the red flour beetle, Tribolium castaneum. Insect Biochemistry and Molecular Biology, 2010, 40, 405-414.	1.2	156
15	Bed bugs evolved unique adaptive strategy to resist pyrethroid insecticides. Scientific Reports, 2013, 3, 1456.	1.6	154
16	Comparative analysis of double-stranded RNA degradation and processing in insects. Scientific Reports, 2017, 7, 17059.	1.6	153
17	RNA interference in Colorado potato beetle: steps toward development of dsRNA as a commercial insecticide. Current Opinion in Insect Science, 2014, 6, 1-8.	2.2	151
18	Gene content evolution in the arthropods. Genome Biology, 2020, 21, 15.	3.8	150

#	Article	IF	Citations
19	Chitosan, Carbon Quantum Dot, and Silica Nanoparticle Mediated dsRNA Delivery for Gene Silencing in Aedes aegypti: A Comparative Analysis. ACS Applied Materials & Interfaces, 2015, 7, 19530-19535.	4.0	141
20	Antagonistic actions of juvenile hormone and 20-hydroxyecdysone within the ring gland determine developmental transitions in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 139-144.	3.3	139
21	Transcription factor broad suppresses precocious development of adult structures during larvalâ€“pupal metamorphosis in the red flour beetle, Tribolium castaneum. Mechanisms of Development, 2008, 125, 299-313.	1.7	126
22	An ecdysteroid-inducible Manduca gene similar to the Drosophila DHR3 gene, a member of the steroid hormone receptor superfamily. Developmental Biology, 1992, 150, 306-318.	0.9	120
23	Transcription factors, CncC and Maf, regulate expression of CYP6BQ genes responsible for deltamethrin resistance in Tribolium castaneum. Insect Biochemistry and Molecular Biology, 2015, 65, 47-56.	1.2	118
24	Molecular evolutionary trends and feeding ecology diversification in the Hemiptera, anchored by the milkweed bug genome. Genome Biology, 2019, 20, 64.	3.8	114
25	Ecdysteroid regulation of ovarian growth and oocyte maturation in the red flour beetle, Tribolium castaneum. Insect Biochemistry and Molecular Biology, 2010, 40, 429-439.	1.2	113
26	Molecular analysis of nutritional and hormonal regulation of female reproduction in the red flour beetle, Tribolium castaneum. Insect Biochemistry and Molecular Biology, 2011, 41, 294-305.	1.2	112
27	bHLH-PAS family transcription factor methoprene-tolerant plays a key role in JH action in preventing the premature development of adult structures during larvalâ€“pupal metamorphosis. Mechanisms of Development, 2008, 125, 601-616.	1.7	111
28	Edysone receptor isoforms play distinct roles in controlling molting and metamorphosis in the red flour beetle, Tribolium castaneum. Molecular and Cellular Endocrinology, 2008, 291, 42-49.	1.6	110
29	Transcription factor cap n collar C regulates multiple cytochrome P450 genes conferring adaptation to potato plant allelochemicals and resistance to imidacloprid in Leptinotarsa decemlineata (Say). Insect Biochemistry and Molecular Biology, 2017, 83, 1-12.	1.2	110
30	Identification and Characterization of a Juvenile Hormone Response Element and Its Binding Proteins. Journal of Biological Chemistry, 2007, 282, 37605-37617.	1.6	103
31	Mechanisms of midgut remodeling: Juvenile hormone analog methoprene blocks midgut metamorphosis by modulating ecdysone action. Mechanisms of Development, 2006, 123, 530-547.	1.7	101
32	Integrated analysis of cytochrome P450 gene superfamily in the red flour beetle, Tribolium castaneum. BMC Genomics, 2013, 14, 174.	1.2	101
33	Molecular analysis of the mode of action of RH-5992, a lepidopteran-specific, non-steroidal ecdysteroid agonist. Insect Biochemistry and Molecular Biology, 1995, 25, 109-117.	1.2	100
34	The function of nuclear receptors in regulation of female reproduction and embryogenesis in the red flour beetle, Tribolium castaneum. Journal of Insect Physiology, 2010, 56, 1471-1480.	0.9	100
35	Large-scale RNAi screen of G protein-coupled receptors involved in larval growth, molting and metamorphosis in the red flour beetle. BMC Genomics, 2011, 12, 388.	1.2	98
36	Juvenile hormone regulation of male accessory gland activity in the red flour beetle, Tribolium castaneum. Mechanisms of Development, 2009, 126, 563-579.	1.7	95

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37	Accumulation of dsRNA in endosomes contributes to inefficient RNA interference in the fall armyworm, Spodoptera frugiperda. Insect Biochemistry and Molecular Biology, 2017, 90, 53-60.	1.2	95
38	20-Hydroxyecdysone (20E) Primary Response Gene E93 Modulates 20E Signaling to Promote Bombyx Larval-Pupal Metamorphosis. Journal of Biological Chemistry, 2015, 290, 27370-27383.	1.6	92
39	Developmental and hormonal regulation of midgut remodeling in a lepidopteran insect, Heliothis virescens. Mechanisms of Development, 2007, 124, 23-34.	1.7	90
40	A specialist herbivore pest adaptation to xenobiotics through up-regulation of multiple Cytochrome P450s. Scientific Reports, 2016, 6, 20421.	1.6	90
41	Double-stranded RNA binding protein, Staufen, is required for the initiation of RNAi in coleopteran insects. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8334-8339.	3.3	87
42	Spruce budworm (Choristoneura fumiferana) juvenile hormone esterase: hormonal regulation, developmental expression and cDNA cloning. Molecular and Cellular Endocrinology, 1999, 148, 95-108.	1.6	86
43	Improved ecdysone receptor-based inducible gene regulation system. FEBS Journal, 2003, 270, 1308-1315.	0.2	85
44	Juvenile Hormone and Insulin Regulate Trehalose Homeostasis in the Red Flour Beetle, Tribolium castaneum. PLoS Genetics, 2013, 9, e1003535.	1.5	85
45	Identification and characterization of nuclear receptors from the red flour beetle, Tribolium castaneum. Insect Biochemistry and Molecular Biology, 2008, 38, 430-439.	1.2	84
46	RNA interference in the Colorado potato beetle, Leptinotarsa decemlineata: Identification of key contributors. Insect Biochemistry and Molecular Biology, 2016, 78, 78-88.	1.2	81
47	Cloning and developmental expression of the ecdysone receptor gene from the spruce budworm,choristoneura fumiferana. Genesis, 1995, 17, 319-330.	3.1	80
48	Ecdysteroid Receptors and their Applications in Agriculture and Medicine. Vitamins and Hormones, 2005, 73, 59-100.	0.7	80
49	RNA Interference of NADPH-Cytochrome P450 Reductase Results in Reduced Insecticide Resistance in the Bed Bug, Cimex lectularius. PLoS ONE, 2012, 7, e31037.	1.1	79
50	Juvenile hormone regulates Aedes aegypti KrÃ¼ppel homolog 1 through a conserved E box motif. Insect Biochemistry and Molecular Biology, 2014, 52, 23-32.	1.2	79
51	Doublesex target genes in the red flour beetle, Tribolium castaneum. Scientific Reports, 2012, 2, 948.	1.6	75
52	Cap n collar transcription factor regulates multiple genes coding for proteins involved in insecticide detoxification in the red flour beetle, Tribolium castaneum. Insect Biochemistry and Molecular Biology, 2017, 90, 43-52.	1.2	74
53	Sex determination in beetles: Production of all male progeny by Parental RNAi knockdown of transformer. Scientific Reports, 2012, 2, 602.	1.6	73
54	Heat Shock Protein 83 (Hsp83) Facilitates Methoprene-tolerant (Met) Nuclear Import to Modulate Juvenile Hormone Signaling. Journal of Biological Chemistry, 2014, 289, 27874-27885.	1.6	73

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55	A determining factor for insect feeding preference in the silkworm, Bombyx mori. PLoS Biology, 2019, 17, e3000162.	2.6	72
56	Cap 'n' collar C regulates genes responsible for imidacloprid resistance in the Colorado potato beetle, Leptinotarsa decemlineata. Insect Biochemistry and Molecular Biology, 2018, 99, 54-62.	1.2	67
57	Proteomics of Tribolium castaneum seminal fluid proteins: Identification of an angiotensin-converting enzyme as a key player in regulation of reproduction. Journal of Proteomics, 2013, 78, 83-93.	1.2	66
58	Development of CS-TPP-dsRNA nanoparticles to enhance RNAi efficiency in the yellow fever mosquito, Aedes aegypti. Scientific Reports, 2019, 9, 8775.	1.6	66
59	Methyl Farnesoate Plays a Dual Role in Regulating Drosophila Metamorphosis. PLoS Genetics, 2015, 11, e1005038.	1.5	64
60	Cloning and developmental expression of Choristoneura hormone receptor 3, an ecdysone-inducible gene and a member of the steroid hormone receptor superfamily. Insect Biochemistry and Molecular Biology, 1996, 26, 485-499.	1.2	63
61	A single point mutation in ecdysone receptor leads to increased ligand specificity: Implications for gene switch applications. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14710-14715.	3.3	62
62	Ecdysteroid titers and developmental expression of ecdysteroid-regulated genes during metamorphosis of the yellow fever mosquito, Aedes aegypti (Diptera: Culicidae). Journal of Insect Physiology, 2006, 52, 558-568.	0.9	62
63	Off-target effects of RNAi correlate with the mismatch rate between dsRNA and non-target mRNA. RNA Biology, 2021, 18, 1747-1759.	1.5	62
64	The FOXO transcription factor controls insect growth and development by regulating juvenile hormone degradation in the silkworm, Bombyx mori. Journal of Biological Chemistry, 2017, 292, 11659-11669.	1.6	61
65	A nuclear juvenile hormone-binding protein from larvae of Manduca sexta: a putative receptor for the metamorphic action of juvenile hormone.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 6191-6195.	3.3	59
66	20-Hydroxyecdysone (20E) Primary Response Gene E75 Isoforms Mediate Steroidogenesis Autoregulation and Regulate Developmental Timing in Bombyx. Journal of Biological Chemistry, 2016, 291, 18163-18175.	1.6	59
67	CncC/Mafâ€mediated xenobiotic response pathway in insects. Archives of Insect Biochemistry and Physiology, 2020, 104, e21674.	0.6	59
68	Crustacean retinoid-X receptor isoforms: distinctive DNA binding and receptorâ€“receptor interaction with a cognate ecdysteroid receptor. Molecular and Cellular Endocrinology, 2004, 218, 21-38.	1.6	58
69	Developmental expression and stress induction of glutathione S-transferase in the spruce budworm, Choristoneura fumiferana. Journal of Insect Physiology, 2001, 47, 1-10.	0.9	56
70	Identification and Characterization of a Juvenile Hormone (JH) Response Region in the JH Esterase Gene from the Spruce Budworm, Choristoneura fumiferana. Journal of Biological Chemistry, 2004, 279, 19634-19642.	1.6	56
71	Juvenile hormone regulation of female reproduction in the common bed bug, Cimex lectularius. Scientific Reports, 2016, 6, 35546.	1.6	56
72	Improving RNAi in the Brown Marmorated Stink Bug: Identification of target genes and reference genes for RT-qPCR. Scientific Reports, 2018, 8, 3720.	1.6	55

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73	Synthesis of the same two proteins prior to larval diapause and pupation in the spruce budworm, Choristoneura fumiferana. Journal of Insect Physiology, 1998, 44, 509-524.	0.9	54
74	Proliferation and differentiation of intestinal stem cells during metamorphosis of the red flour beetle, Tribolium castaneum. Developmental Dynamics, 2008, 237, 893-908.	0.8	54
75	RNA interference in the Asian Longhorned Beetle:Identification of Key RNAi Genes and Reference Genes for RT-qPCR. Scientific Reports, 2017, 7, 8913.	1.6	53
76	BmILF and i-motif structure are involved in transcriptional regulation of BmPOUM2 in Bombyx mori. Nucleic Acids Research, 2018, 46, 1710-1723.	6.5	53
77	Forest insect cell lines responsive to 20-hydroxyecdysone and two nonsteroidal ecdysone agonists, RH-5849 and RH-5992. Journal of Insect Physiology, 1995, 41, 457-464.	0.9	52
78	Studies of the Nucleopolyhedrovirus Infection Process in Insects by Using the Green Fluorescence Protein as a Reporter. Journal of Virology, 1998, 72, 3377-3382.	1.5	52
79	Molecular Evidence for a Functional Ecdysone Signaling System in Brugia malayi. PLoS Neglected Tropical Diseases, 2010, 4, e625.	1.3	52
80	Homeodomain POU and Abd-A proteins regulate the transcription of pupal genes during metamorphosis of the silkworm, Bombyx mori. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12598-12603.	3.3	52
81	A function for pericardial cells in an insect. Insect Biochemistry, 1987, 17, 829-840.	1.8	51
82	Juvenile hormone and â€œretinoic acidâ€•receptors in Manduca epidermis. Insect Biochemistry, 1991, 21, 7-15.	1.8	50
83	Changes in both trans- and cis-regulatory elements mediate insecticide resistance in a lepidopteron pest, Spodoptera exigua. PLoS Genetics, 2021, 17, e1009403.	1.5	49
84	Developmental expression, synthesis, and secretion of insecticyanin by the epidermis of the tobacco hornworm,Manduca sexta. Archives of Insect Biochemistry and Physiology, 1990, 14, 171-190.	0.6	48
85	Glutathione S-transferase from the spruce budworm, Choristoneura fumiferana: identification, characterization, localization, cDNA cloning, and expression. Insect Biochemistry and Molecular Biology, 1999, 29, 779-793.	1.2	48
86	Studies on two ecdysone receptor isoforms of the spruce budworm, Choristoneura fumiferana. Molecular and Cellular Endocrinology, 1999, 152, 73-84.	1.6	48
87	Ultrastructural Effects of a Non-Steroidal Ecdysone Agonist, RH-5992, on the Sixth Instar Larva of the Spruce Budworm, Choristoneura fumiferana. Journal of Insect Physiology, 1997, 43, 55-68.	0.9	47
88	Developmental and hormonal regulation of juvenile hormone esterase gene in Drosophila melanogaster. Journal of Insect Physiology, 2005, 51, 393-400.	0.9	47
89	Development of RNAi method for screening candidate genes to control emerald ash borer, Agrilus planipennis. Scientific Reports, 2017, 7, 7379.	1.6	47
90	Juvenile hormone receptors in insect larval epidermis: identification by photoaffinity labeling.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 796-800.	3.3	46

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91	Highly Flexible Ligand Binding Pocket of Ecdysone Receptor. Journal of Biological Chemistry, 2004, 279, 27211-27218.	1.6	46
92	The synthesis of hemolymph proteins by the larval epidermis of an insect Calpodes ethlius (Lepidoptera: Hesperiidae). Insect Biochemistry, 1987, 17, 711-722.	1.8	45
93	Basis for selective action of a synthetic molting hormone agonist, RH-5992 on lepidopteran insects. Insect Biochemistry and Molecular Biology, 1998, 28, 693-704.	1.2	45
94	Molecular analysis of juvenile hormone analog action in controlling the metamorphosis of the red flour beetle, Tribolium castaneum. Archives of Insect Biochemistry and Physiology, 2009, 70, 57-70.	0.6	45
95	CfMNPV BlocksAcMNPV-Induced Apoptosis in a Continuous Midgut Cell Line. Virology, 1996, 222, 201-213.	1.1	43
96	Stage- and cell-specific expression of ecdysone receptors and ecdysone-induced transcription factors during midgut remodeling in the yellow fever mosquito, Aedes aegypti. Journal of Insect Physiology, 2007, 53, 216-229.	0.9	43
97	Tribolium castaneum Transformer-2 regulates sex determination and development in both males and females. Insect Biochemistry and Molecular Biology, 2013, 43, 1125-1132.	1.2	43
98	KrÃ¼ppel homolog 1 and E93 mediate Juvenile hormone regulation of metamorphosis in the common bed bug, Cimex lectularius. Scientific Reports, 2016, 6, 26092.	1.6	43
99	EFFECT OF RH-5992, A NONSTEROIDAL ECDYSONE AGONIST, ON THE SPRUCE BUDWORM,CHORISTONEURA FUMIFERANA(LEPIDOPTERA: TORTRICIDAE): LABORATORY, GREENHOUSE, AND GROUND SPRAY TRIALS. Canadian Entomologist, 1997, 129, 871-885.	0.4	42
100	Ectopic expression of ecdysone oxidase impairs tissue degeneration in Bombyx mori. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150513.	1.2	42
101	Functional characterization of PAS and HES family bHLH transcription factors during the metamorphosis of the red flour beetle, Tribolium castaneum. Gene, 2009, 448, 74-87.	1.0	41
102	Identification of highly effective target genes for RNAi-mediated control of emerald ash borer, Agrilus planipennis. Scientific Reports, 2018, 8, 5020.	1.6	41
103	The synthesis of hemolymph proteins by the larval fat body of an insect Calpodes ethlius (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Ov	1.8	40
104	Cloning and developmental expression of Choristoneura hormone receptor 75: A homologue of the Drosophila E75A gene. , 1997, 20, 36-46.		40
105	Identification and characterization of juvenile hormone esterase gene from the yellow fever mosquito, Aedes aegypti. Insect Biochemistry and Molecular Biology, 2007, 37, 829-837.	1.2	40
106	Functional characterization of bursicon receptor and genome-wide analysis for identification of genes affected by bursicon receptor RNAi. Developmental Biology, 2010, 344, 248-258.	0.9	40
107	CYP18A1 regulates tissue-specific steroid hormone inactivation in Bombyx mori. Insect Biochemistry and Molecular Biology, 2014, 54, 33-41.	1.2	40
108	Epigenetic modifications acetylation and deacetylation play important roles in juvenile hormone action. BMC Genomics, 2018, 19, 934.	1.2	40

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109	The synthesis of hemolymph proteins by the larval midgut of an insect Calpodes ethlius (Lepidoptera:Hesperiidae). Insect Biochemistry, 1987, 17, 561-572.	1.8	39
110	Theultraspiracle gene of the Spruce Budworm,Choristoneura fumiferana: Cloning of cDNA and developmental expression of mRNA. Genesis, 1998, 22, 169-179.	3.1	39
111	Mode of action of methoprene in affecting female reproduction in the African malaria mosquito, Anopheles gambiae. Pest Management Science, 2010, 66, 936-943.	1.7	39
112	Identification of G protein-coupled receptors required for vitellogenin uptake into the oocytes of the red flour beetle, Tribolium castaneum. Scientific Reports, 2016, 6, 27648.	1.6	39
113	Knockout of juvenile hormone receptor, Methoprene-tolerant, induces black larval phenotype in the yellow fever mosquito, Aedes aegypti. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21501-21507.	3.3	39
114	Molecular and biochemical aspects of chitin synthesis inhibition. , 1999, 87, 85-98.		39
115	Xenobiotic transcription factors CncC and maf regulate expression of CYP321A16 and CYP332A1 that mediate chlorpyrifos resistance in Spodoptera exigua. Journal of Hazardous Materials, 2020, 398, 122971.	6.5	38
116	Interaction of proteins involved in ecdysone and juvenile hormone signal transduction. Archives of Insect Biochemistry and Physiology, 2009, 70, 90-105.	0.6	37
117	Juvenile hormone signaling promotes ovulation and maintains egg shape by inducing expression of extracellular matrix genes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	37
118	Histone deacetylase 1 suppresses KrÃ¼ppel homolog 1 gene expression and influences juvenile hormone action in Tribolium castaneum. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17759-17764.	3.3	36
119	Chitosan nanoparticles help doubleâ€stranded RNA escape from endosomes and improve RNA interference in the fall armyworm, Spodoptera frugiperda. Archives of Insect Biochemistry and Physiology, 2020, 104, e21677.	0.6	36
120	Patterns of MHR3 Expression in the Epidermis during a Larval Molt of the Tobacco Hornworm Manduca sexta. Developmental Biology, 2000, 227, 481-494.	0.9	35
121	Genome editing in the fall armyworm, Spodoptera frugiperda: Multiple sgRNA/Cas9 method for identification of knockouts in one generation. Insect Biochemistry and Molecular Biology, 2020, 122, 103373.	1.2	35
122	Purification and reassessment of ligand binding by the recombinant, putative juvenile hormone receptor of the tobacco hornworm,Manduca sexta. Archives of Insect Biochemistry and Physiology, 1996, 31, 371-393.	0.6	34
123	The influence of heterodimer partner ultraspiracle/retinoid X receptor on the function of ecdysone receptor. FEBS Journal, 2005, 272, 5979-5990.	2.2	34
124	Insulin/IGF signaling and TORC1 promote vitellogenesis via inducing juvenile hormone biosynthesis in the American cockroach. Development (Cambridge), 2020, 147, .	1.2	34
125	Multiple functions of CREB-binding protein during postembryonic development: identification of target genes. BMC Genomics, 2017, 18, 996.	1.2	33
126	Lipids help doubleâ€stranded RNA in endosomal escape and improve RNA interference in the fall armyworm, Spodoptera frugiperda. Archives of Insect Biochemistry and Physiology, 2020, 104, e21678.	0.6	33

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127	Effect of RH-5992 on adult development in the spruce budworm, Choristoneura fumiferana. Insect Biochemistry and Molecular Biology, 2002, 32, 225-231.	1.2	32
128	Identification and characterization of multiple dsRNases from a lepidopteran insect, the tobacco cutworm, Spodoptera litura (Lepidoptera: Noctuidae). Pesticide Biochemistry and Physiology, 2020, 162, 86-95.	1.6	32
129	Identification of a cisâ€regulatory element required for 20â€hydroxyecdysone enhancement of antimicrobial peptide gene expression in Drosophila melanogaster. Insect Molecular Biology, 2009, 18, 595-605.	1.0	31
130	The localization of arylphorin in an insect, Calpodes ethlius. Journal of Insect Physiology, 1989, 35, 223-231.	0.9	30
131	Analysis of ecdysteroid action in Malacosoma disstria cells: Cloning selected regions of E75- and MHR3-like genes. Insect Biochemistry and Molecular Biology, 1995, 25, 697-707.	1.2	30
132	Recent Progress in Juvenile Hormone Analogs (JHA) Research. Advances in Insect Physiology, 2012, , 353-436.	1.1	30
133	Selection of housekeeping genes and demonstration of RNAi in cotton leafhopper, Amrasca biguttula biguttula (Ishida). PLoS ONE, 2018, 13, e0191116.	1.1	30
134	Identification of target genes for RNAi-mediated control of the Twospotted Spider Mite. Scientific Reports, 2018, 8, 14687.	1.6	29
135	Development of a methoxyfenozide-responsive gene switch for applications in plants. Plant Journal, 2006, 45, 457-469.	2.8	28
136	Transcriptional activation of the cloned Heliothis virescens (Lepidoptera) ecdysone receptor (HvEcR) by MuristeroneA. Insect Biochemistry and Molecular Biology, 1999, 29, 915-930.	1.2	27
137	Intragenic DNA methylation regulates insect gene expression and reproduction through the MBD/Tip60 complex. IScience, 2021, 24, 102040.	1.9	27
138	Uptake and Bioactivity of Chitosan/Double-Stranded RNA Polyplex Nanoparticles in Caenorhabditis elegans. Environmental Science & Technology, 2019, 53, 3832-3840.	4.6	26
139	RNA sequencing, selection of reference genes and demonstration of feeding RNAi in Thrips tabaci (Lind.) (Thysanoptera: Thripidae). BMC Molecular Biology, 2019, 20, 6.	3.0	26
140	Disruption of sexâ€specific doublesex exons results in maleâ€and femaleâ€specific defects in the black cutworm, Agrotis ipsilon. Pest Management Science, 2019, 75, 1697-1706.	1.7	26
141	Reconstruction of Ligand-Dependent Transactivation ofChoristoneura fumiferanaEcdysone Receptor in Yeast. Molecular Endocrinology, 2001, 15, 1140-1153.	3.7	25
142	Biochemical mode of action and differential activity of new ecdysone agonists against mosquitoes and moths. Archives of Insect Biochemistry and Physiology, 2005, 58, 234-242.	0.6	25
143	Protein Kinase C mediated phosphorylation blocks juvenile hormone action. Molecular and Cellular Endocrinology, 2006, 247, 127-134.	1.6	25
144	Toxicity of Ecdysone Agonists Correlates with the Induction of CHR3 mRNA in the Spruce Budworm. Pesticide Biochemistry and Physiology, 1998, 62, 201-208.	1.6	23

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145	Heterodimerization of ecdysone receptor and ultraspiracle on symmetric and asymmetric response elements. Archives of Insect Biochemistry and Physiology, 2005, 60, 55-70.	0.6	23
146	RNAi for management of Asian long-horned beetle, Anoplophora glabripennis: identification of target genes. Journal of Pest Science, 2020, 93, 823-832.	1.9	23
147	Purification and characterization of three major hemolymph proteins of an insect,Calpodes ethlius (lepidoptera, hesperiidae). Archives of Insect Biochemistry and Physiology, 1987, 5, 233-244.	0.6	22
148	An analysis of ecdysone receptor domains required for heterodimerization with ultraspiracle. Archives of Insect Biochemistry and Physiology, 1999, 41, 61-70.	0.6	22
149	Choristoneura fumiferana entomopoxvirus prevents metamorphosis and modulates juvenile hormone and ecdysteroid titers. Insect Biochemistry and Molecular Biology, 2000, 30, 869-876.	1.2	22
150	The acidic activation domains of the baculovirus transactivators IE1 and IE0 are functional for transcriptional activation in both insect and mammalian cells. Journal of General Virology, 2004, 85, 573-582.	1.3	22
151	CAN JUVENILE HORMONE RESEARCH HELP REJUVENATE INTEGRATED PEST MANAGEMENT?. Canadian Entomologist, 2000, 132, 263-280.	0.4	22
152	Epigenetic regulation of post-embryonic development. Current Opinion in Insect Science, 2021, 43, 63-69.	2.2	21
153	Development of Catechin, Poly-<scp>l</scp>-lysine, and Double-Stranded RNA Nanoparticles. ACS Applied Bio Materials, 2021, 4, 4310-4318.	2.3	21
154	Cloning and characterization of a new isoform of Choristoneura hormone receptor 3 from the spruce budworm. Archives of Insect Biochemistry and Physiology, 1997, 35, 33-44.	0.6	20
155	The members of bHLH transcription factor superfamily are required for female reproduction in the red flour beetle, Tribolium castaneum. Journal of Insect Physiology, 2010, 56, 1481-1489.	0.9	20
156	New roles for old actors, ROS and PRMT1. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10810-10812.	3.3	20
157	CREB-binding protein plays key roles in juvenile hormone action in the red flour beetle, Tribolium Castaneum. Scientific Reports, 2018, 8, 1426.	1.6	20
158	Polymer-Coated Hydroxyapatite Nanocarrier for Double-Stranded RNA Delivery. Journal of Agricultural and Food Chemistry, 2020, 68, 6811-6818.	2.4	20
159	FEEDING BEHAVIOUR OF THE FIRST-INSTAR CHORISTONEURA FUMIFERANA AND CHORISTONEURA PINUS PINUS (LEPIDOPTERA: TORTRICIDAE). Canadian Entomologist, 1999, 131, 79-84.	0.4	19
160	Developmental expression and hormonal regulation of the nuclear 29 kDa juvenile hormone-binding protein inManduca sexta larval epidermis. The Journal of Experimental Zoology, 1991, 260, 337-344.	1.4	18
161	Histone Deacetylase 11 Knockdown Blocks Larval Development and Metamorphosis in the Red Flour Beetle, Tribolium castaneum. Frontiers in Genetics, 2020, 11, 683.	1.1	18
162	Concomitant primary infection of the midgut epithelial cells and the hemocytes of Trichoplusia ni by Autographa californica nucleopolyhedrovirus. Tissue and Cell, 1998, 30, 602-616.	1.0	17

#	Article	IF	Citations
163	Development of a tightly regulated and highly inducible ecdysone receptor gene switch for plants through the use of retinoid X receptor chimeras. Transgenic Research, 2007, 16, 599-612.	1.3	17
164	RNAi in Spodoptera frugiperda Sf9 Cells via Nanomaterial Mediated Delivery of dsRNA: A Comparison of Poly-<scp>l</scp>-arginine Polyplexes and Poly-<scp>l</scp>-arginine-Functionalized Au Nanoparticles. ACS Applied Materials & Interfaces, 2020, 12, 25645-25657.	4.0	17
165	Protamineâ€“Lipidâ€“dsRNA Nanoparticles Improve RNAi Efficiency in the Fall Armyworm, Spodoptera frugiperda. Journal of Agricultural and Food Chemistry, 2022, 70, 6634-6643.	2.4	17
166	Identification of nuclear receptors involved in regulation of male reproduction in the red flour beetle, Tribolium castaneum. Journal of Insect Physiology, 2012, 58, 710-717.	0.9	16
167	Production of all female progeny: an evidence for the presence of male sex determination factor on Y chromosome. Journal of Experimental Biology, 2014, 217, 1653-5.	0.8	16
168	Identification and characterization of highly active promoters from the fall armyworm, Spodoptera frugiperda. Insect Biochemistry and Molecular Biology, 2020, 126, 103455.	1.2	16
169	Inhibitor of apoptosis is an effective target gene for RNAiâ€mediated control of Colorado potato beetle,Leptinotarsa decemlineata. Archives of Insect Biochemistry and Physiology, 2020, 104, e21685.	0.6	16
170	Identification of Ecdysone Hormone Receptor Agonists as a Therapeutic Approach for Treating Filarial Infections. PLoS Neglected Tropical Diseases, 2016, 10, e0004772.	1.3	16
171	Knockout of SldsRNase1 and SldsRNase2 revealed their function in dsRNA degradation and contribution to RNAi efficiency in the tobacco cutworm, Spodoptera litura. Journal of Pest Science, 2021, 94, 1449-1460.	1.9	15
172	The ABC transporter Pdr5p mediates the efflux of nonsteroidal ecdysone agonists inSaccharomyces cerevisiae. FEBS Journal, 2001, 268, 3416-3422.	0.2	14
173	Ecdysteroid ligandâ€“receptor selectivity â€“ exploring trends to design orthogonal gene switches. FEBS Journal, 2008, 275, 5785-5809.	2.2	14
174	Juvenile hormone membrane signaling phosphorylates USP and thus potentiates 20-hydroxyecdysone action in Drosophila. Science Bulletin, 2022, 67, 186-197.	4.3	14
175	Applications of EcR gene switch technology in functional genomics. Archives of Insect Biochemistry and Physiology, 2007, 65, 164-179.	0.6	13
176	Double-stranded RNA in exosomes: Potential systemic RNA interference pathway in the Colorado potato beetle, Leptinotarsa decemlineata. Journal of Asia-Pacific Entomology, 2020, 23, 1160-1164.	0.4	12
177	Orally delivered dsRNA induces knockdown of target genes and mortality in the Asian longâ€horned beetle, Anoplophora glabripennis. Archives of Insect Biochemistry and Physiology, 2020, 104, e21679.	0.6	12
178	CREB-binding protein regulates metamorphosis and compound eye development in the yellow fever mosquito, Aedes aegypti. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2020, 1863, 194576.	0.9	12
179	Caenorhabditis eleganssystemic RNA interference defective protein 1 enhances RNAi efficiency in a lepidopteran insect, the fall armyworm, in a tissue-specific manner. RNA Biology, 2021, 18, 1291-1299.	1.5	11
180	RNA interferenceâ€mediated control of cigarette beetle, Lasioderma serricorne. Archives of Insect Biochemistry and Physiology, 2020, 104, e21680.	0.6	11

#	Article	IF	Citations
181	Evaluation of inhibitor of apoptosis genes as targets for RNAiâ€mediated control of insect pests. Archives of Insect Biochemistry and Physiology, 2020, 104, e21689.	0.6	11
182	MicroRNA miR-8 promotes cell growth of corpus allatum and juvenile hormone biosynthesis independent of insulin/IGF signaling in Drosophila melanogaster. Insect Biochemistry and Molecular Biology, 2021, 136, 103611.	1.2	11
183	Functional characterization of ecdysone receptor gene switches in mammalian cells. FEBS Journal, 2006, 273, 5550-5563.	2.2	10
184	G Protein-Coupled Receptors as Target Sites for Insecticide Discovery. , 2013, , 57-82.		10
185	A Î”9 desaturase (SlitDes11) is associated with the biosynthesis of ester sex pheromone components in Spodoptera litura. Pesticide Biochemistry and Physiology, 2019, 156, 152-159.	1.6	10
186	Comparison of Nanomaterials for Delivery of Double-Stranded RNA inCaenorhabditis elegans. Journal of Agricultural and Food Chemistry, 2020, 68, 7926-7934.	2.4	10
187	Histone deacetylase 3 is required for development and metamorphosis in the red flour beetle, Tribolium castaneum. BMC Genomics, 2020, 21, 420.	1.2	10
188	Transport of orally delivered dsRNA in southern green stink bug, Nezara viridula. Archives of Insect Biochemistry and Physiology, 2020, 104, e21692.	0.6	10
189	Juvenile hormone-induced histone deacetylase 3 suppresses apoptosis to maintain larval midgut in the yellow fever mosquito. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2118871119.	3.3	10
190	Effect of ecdysone receptor gene switch ligands on endogenous gene expression in 293â€ƒcells. FEBS Journal, 2007, 274, 5669-5689.	2.2	9
191	Nutrition regulation of male accessory gland growth and maturation in Tribolium castaneum. Scientific Reports, 2015, 5, 10567.	1.6	9
192	Transgenic overexpression of P450 genes confers deltamethrin resistance in the fall armyworm, Spodoptera frugiperda. Journal of Pest Science, 2022, 95, 1197-1205.	1.9	9
193	RNA- and protein-synthesis inhibitors induce apoptosis in a midgut cell line from the spruce budworm, Choristoneura fumiferana. Journal of Insect Physiology, 1996, 42, 1061-1069.	0.9	8
194	Tight transcriptional regulation of foreign genes in insect cells using an ecdysone receptor-based inducible system. Protein Expression and Purification, 2005, 42, 236-245.	0.6	8
195	Improvement of a monopartite ecdysone receptor gene switch and demonstration of its utility in regulation of transgene expression in plants. FEBS Journal, 2008, 275, 2161-2176.	2.2	8
196	Improving RNA interference in the southern green stink bug, Nezara viridula. Journal of Pest Science, 2021, 94, 1461-1472.	1.9	8
197	Transcript level is a key factor affecting RNAi efficiency. Pesticide Biochemistry and Physiology, 2021, 176, 104872.	1.6	8
198	Molecular analysis of the p48 gene of Choristoneura fumiferana multicapsid nucleopolyhedroviruses CfMNPV and CfDEFNPV.. Journal of General Virology, 1999, 80, 1833-1840.	1.3	8

#	Article	IF	Citations
199	Selective mechanism of action of tebufenozide on lepidopteran cell lines. Pest Management Science, 1999, 55, 654-655.	0.7	7
200	Development of RNAi methods to control the harlequin bug, Murgantia histrionica. Archives of Insect Biochemistry and Physiology, 2020, 104, e21690.	0.6	7
201	Identification and functional analysis of promoters of heat-shock genes from the fall armyworm, Spodoptera frugiperda. Scientific Reports, 2020, 10, 2363.	1.6	7
202	Stage-specific action of juvenile hormone analogs. Journal of Pesticide Sciences, 2021, 46, 16-22.	0.8	7
203	RNAi methods for management of insects and their pathogens.. CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources, 0, , 1-10.	0.6	7
204	Biochemical and biological mode of action of ecdysone agonists on the spruce budworm. Pest Management Science, 1999, 55, 656-657.	0.7	6
205	A photoaffinity, non-steroidal, ecdysone agonist, bisacylhydrazine compound, RH-131039: Characterization of binding and functional activity. Insect Biochemistry and Molecular Biology, 2007, 37, 865-875.	1.2	6
206	Mutant and Overexpression Analysis of a C2H2 Single Zinc Finger Gene of Arabidopsis. Plant Molecular Biology Reporter, 2012, 30, 99-110.	1.0	6
207	The effect of E93 knockdown on female reproduction in the red flour beetle, Tribolium castaneum. Archives of Insect Biochemistry and Physiology, 2020, 104, e21688.	0.6	6
208	Hyperactive piggyBac Transposase-mediated Germline Transformation in the Fall Armyworm, Spodoptera frugiperda. Journal of Visualized Experiments, 2021, , .	0.2	6
209	Mapping distributions of the Lyme disease vector, Ixodes scapularis, and spirochete, Borrelia burgdorferi, in Kentucky using passive and active surveillance. Ticks and Tick-borne Diseases, 2022, 13, 101885.	1.1	6
210	Diapause disruption with tebufenozide for early-instar control of the spruce budworm,Choristoneura fumiferana. Pest Management Science, 2007, 63, 730-736.	1.7	5
211	The mitogenome of the bed bug Cimex lectularius (Hemiptera: Cimicidae). Mitochondrial DNA Part B: Resources, 2016, 1, 425-427.	0.2	5
212	Hormonal Regulation of Development and Reproduction. , 2016, , 97-114.		5
213	Identification of juvenile hormone-induced posttranslational modifications of methoprene tolerant and KrÃ¼ppel homolog 1 in the yellow fever mosquito, Aedes aegypti. Journal of Proteomics, 2021, 242, 104257.	1.2	5
214	Future Insecticides Targeting Genes Involved in the Regulation of Molting and Metamorphosis. , 2007, , 105-134.		5
215	Production of Choristoneura fumiferana Nucleopolyhedrovirus in C. fumiferana (CF-2C1 Cells) in a 3 Litre Bioreactor Using Serum-free Medium. Biocontrol Science and Technology, 2000, 10, 301-313.	0.5	4
216	Coleopteran-specific StaufenC functions like Drosophila melanogaster Loquacious-PD in dsRNA processing. RNA Biology, 2021, 18, 467-477.	1.5	4

#	Article	IF	Citations
217	Midgut-specific expression of CYP321A8 P450 gene increases deltamethrin tolerance in the fall armyworm Spodoptera frugiperda. Journal of Pest Science, 2023, 96, 1611-1623.	1.9	4
218	Identification and developmental expression of the mitochondrial phosphate transport protein gene from the spruce budworm, Choristoneura fumiferana. Insect Biochemistry and Molecular Biology, 1998, 28, 791-799.	1.2	3
219	Molecular modifications of Baculoviruses for the control of forest insect pests. Advances in Virus Research, 2001, 57, 263-290.	0.9	3
220	DNA versus protein immunisation for production of monoclonal antibodies against Choristoneura fumiferana ecdysone receptor (CfEcR). Vaccine, 2006, 24, 3115-3126.	1.7	3
221	Improvement of ecdysone receptor gene switch for applications in plants: Locustaâ€ƒmigratoria retinoid X receptor (LmRXR) mutagenesis and optimization of translation start site. FEBS Journal, 2010, 277, 4640-4650.	2.2	3
222	Molecular Aspects of Juvenile Hormone Reception and Action. , 1990, , 77-81.		3
223	Recent Advances in the Mode of Action of Juvenile Hormones and Their Analogs. , 2009, , 111-129.		3
224	NUCLEOPOLYHEDROVIRUS PATHOLOGY IN SPRUCE BUDWORM LARVAE. Canadian Entomologist, 2000, 132, 581-590.	0.4	2
225	Doubleâ€stranded RNAs targeting inhibitor of apoptosis gene show no significant crossâ€species activity. Archives of Insect Biochemistry and Physiology, 2020, 104, e21683.	0.6	2
226	Expanding the Toolkit for Genome Editing in a Disease Vector, Aedes aegypti: Transgenic Lines Expressing Cas9 and Single Guide RNA Induce Efficient Mutagenesis. CRISPR Journal, 2021, , .	1.4	2
227	Applications of RNA Interference in Ecdysone Research. , 2009, , 205-227.		2
228	bHLH Transcription Factors: Potential Target Sites for Insecticide Development. , 2013, , 13-30.		2
229	Molecular cloning of a female-specific cDNA with unique repeat sequences from the fat body of the adult locust, Locusta migratoria. Insect Biochemistry and Molecular Biology, 2000, 30, 829-837.	1.2	1
230	Ecdysone Receptor-Based Gene Switches for Applications in Plants. , 2009, , 511-538.		1
231	SoxC is Required for Ecdysteroid Induction of Neuropeptide Genes During Insect Eclosion. Frontiers in Genetics, 0, 13, .	1.1	1
232	Insect Genomics. , 2012, , 1-29.		0
233	Introduction. Annual Review of Entomology, 2017, 62, v-vii.	5.7	0
234	Aspects of Nucleopolyhedrovirus Pathogenesis in Lepidopteran Larvae. , 2001, , .		0

#	Article	IF	Citations
235	Enabling technologies for next generation pest management. , 2016, , .		0
236	SoxC is Required for Ecdysteroid Induction of Neuropeptide Genes During Insect Ecdysis. SSRN Electronic Journal, 0, , .	0.4	0