Stephen S Tobe

List of Publications by Year
in descending order

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128 papers	6,569 citations	44069 48 h-index	71685 76 g-index
130 all docs	130 docs citations	130 times ranked	2578 citing authors

#	Article	IF	Citations
1	Myriapod genomes reveal ancestral horizontal gene transfer and hormonal gene loss in millipedes. Nature Communications, 2022, 13, .	12.8	12
2	Horseshoe crab genomes reveal the evolution of genes and microRNAs after three rounds of whole genome duplication. Communications Biology, 2021, 4, 83.	4.4	31
3	Enzymes in the juvenile hormone biosynthetic pathway can be potential targets for pest control. Pest Management Science, 2020, 76, 1071-1077.	3.4	17
4	Diversity of Insect Sesquiterpenoid Regulation. Frontiers in Genetics, 2020, 11, 1027.	2.3	35
5	Hemolymph Proteomics and Gut Microbiota of Horseshoe Crabs Tachypleus tridentatus and Carcinoscorpius rotundicauda. Frontiers in Marine Science, 2020, 7, .	2.5	9
6	International symposium for comparative endocrinology and genomics in arthropods. General and Comparative Endocrinology, 2020, 299, 113622.	1.8	0
7	Neuropeptide and microRNA regulators of juvenile hormone production. General and Comparative Endocrinology, 2020, 295, 113507.	1.8	25
8	Micro-RNA Clusters Integrate Evolutionary Constraints on Expression and Target Affinities: The miR-6/5/4/286/3/309 Cluster in Drosophila. Molecular Biology and Evolution, 2020, 37, 2955-2965.	8.9	2
9	Jellyfish genomes reveal distinct homeobox gene clusters and conservation of small RNA processing. Nature Communications, 2020, 11, 3051.	12.8	47
10	Juvenile hormone and sesquiterpenoids in arthropods: Biosynthesis, signaling, and role of MicroRNA. Journal of Steroid Biochemistry and Molecular Biology, 2018, 184, 69-76.	2.5	69
11	A rapid quantitative assay for juvenile hormones and intermediates in the biosynthetic pathway using gas chromatography tandem mass spectrometry. Journal of Chromatography A, 2018, 1538, 67-74.	3.7	12
12	miRNA-Mediated Interactions in and between Plants and Insects. International Journal of Molecular Sciences, 2018, 19, 3239.	4.1	23
13	MicroRNAs regulate the sesquiterpenoid hormonal pathway inDrosophilaand other arthropods. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171827.	2.6	20
14	A potential insect growth regulator forÂcockroach control: design, synthesis andÂbioactivity of Nâ€terminalâ€modified allatostatin analogues. Pest Management Science, 2017, 73, 500-505.	3.4	4
15	The Role of MicroRNAs in Drosophila Regulation of Insulin-Like Peptides and Ecdysteroid Signalling: Where Are We Now?. Advances in Insect Physiology, 2017, , 55-85.	2.7	11
16	Lepidopteran HMG-CoA reductase is a potential selective target for pest control. PeerJ, 2017, 5, e2881.	2.0	9
17	Structure of a heterogeneous, glycosylated, lipid-bound,in vivo-grown protein crystal at atomic resolution from the viviparous cockroachDiploptera punctata. IUCrJ, 2016, 3, 282-293.	2.2	28
18	Synthesis, bioactivity and functional evaluation of linker-modified allatostatin analogs as potential insect growth regulators. Chinese Chemical Letters, 2016, 27, 559-562.	9.0	4

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19	Synthesis and biological activity of FGLamide allatostatin analogs with Phe³ residue modifications. Journal of Peptide Science, 2016, 22, 600-606.	1.4	1
20	Molecular cloning and characterization of the allatotropin precursor and receptor in the desert locust, Schistocerca gregaria. Frontiers in Neuroscience, 2015, 9, 84.	2.8	14
21	Characterization of the Juvenile Hormone Pathway in the Viviparous Cockroach, Diploptera punctata. PLoS ONE, 2015, 10, e0117291.	2.5	33
22	How did arthropod sesquiterpenoids and ecdysteroids arise? Comparison of hormonal pathway genes in non-insect arthropod genomes. Genome Biology and Evolution, 2015, 7, evv120.	2.5	64
23	Probing the active conformation of FGLamide allatostatin analogs with N-terminal modifications using NMR spectroscopy and molecular modeling. Peptides, 2015, 68, 214-218.	2.4	6
24	Methyl Farnesoate Plays a Dual Role in Regulating Drosophila Metamorphosis. PLoS Genetics, 2015, 11, e1005038.	3.5	64
25	Identification and characterization of the NMDA receptor and its role in regulating reproduction in the cockroach Diploptera punctata. Journal of Experimental Biology, 2015, 218, 983-990.	1.7	9
26	RXR/USP and EcR are critical for the regulation of reproduction and the control of JH biosynthesis in Diploptera punctata. Journal of Insect Physiology, 2015, 80, 48-60.	2.0	33
27	Synthesis, Biological Activity, and Conformational Study of N-Methylated Allatostatin Analogues Inhibiting Juvenile Hormone Biosynthesis. Journal of Agricultural and Food Chemistry, 2015, 63, 2870-2876.	5.2	9
28	Evolution of Ecdysis and Metamorphosis in Arthropods: The Rise of Regulation of Juvenile Hormone. Integrative and Comparative Biology, 2015, 55, 878-890.	2.0	67
29	Identification of putative ecdysteroid and juvenile hormone pathway genes in the shrimp Neocaridina denticulata. General and Comparative Endocrinology, 2015, 214, 167-176.	1.8	74
30	Methoprene-Tolerant (Met) Knockdown in the Adult Female Cockroach, Diploptera punctata Completely Inhibits Ovarian Development. PLoS ONE, 2014, 9, e106737.	2.5	64
31	Genomic Sequence and Experimental Tractability of a New Decapod Shrimp Model, Neocaridina denticulata. Marine Drugs, 2014, 12, 1419-1437.	4.6	77
32	In vivo crystallography at X-ray free-electron lasers: the next generation of structural biology?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130497.	4.0	39
33	Mode of action of allatostatins in the regulation of juvenile hormone biosynthesis in the cockroach, Diploptera punctata. Insect Biochemistry and Molecular Biology, 2014, 54, 61-68.	2.7	16
34	Sequencing and validation of housekeeping genes for quantitative real-time PCR during the gonadotrophic cycle of Diploptera punctata. BMC Research Notes, 2013, 6, 237.	1.4	22
35	Diploptera punctata as a model for studying the endocrinology of arthropod reproduction and development. General and Comparative Endocrinology, 2013, 188, 85-93.	1.8	33
36	How are comparative genomics and the study of microRNAs changing our views on arthropod endocrinology and adaptations to the environment?. General and Comparative Endocrinology, 2013, 188, 16-22.	1.8	19

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37	Future Perspectives for Research on the Biosynthesis of Juvenile Hormones and Related Sesquiterpenoids in Arthropod Endocrinology and Ecotoxicology. QSAR in Environmental and Health Sciences, 2013, , 15-30.	0.3	6
38	Allatostatins. , 2013, , 191-196.		1
39	Families of allatoregulator sequences: a 2011 perspective1This review is part of a virtual symposium on recent advances in understanding a variety of complex regulatory processes in insect physiology and endocrinology, including development, metabolism, cold hardiness, food intake and digestion, and diuresis, through the use of omics technologies in the postgenomic era.. Canadian Journal of Zoology, 2012, 90, 521-544.	1.0	21
40	Farnesoic acid and methyl farnesoate production during lobster reproduction: Possible functional correlation with retinoid X receptor expression. General and Comparative Endocrinology, 2012, 175, 259-269.	1.8	26
41	Defining the contribution of select neuropeptides and their receptors in regulating sesquiterpenoid biosynthesis by Drosophila melanogaster ring gland/corpus allatum through RNAi analysis. General and Comparative Endocrinology, 2012, 176, 347-353.	1.8	22
42	Peptidomimetics in the Discovery of New Insect Growth Regulators: Studies on the Structureâ^'Activity Relationships of the Core Pentapeptide Region of Allatostatins. Journal of Agricultural and Food Chemistry, 2011, 59, 2478-2485.	5.2	18
43	Final steps in juvenile hormone biosynthesis in the desert locust, Schistocerca gregaria. Insect Biochemistry and Molecular Biology, 2011, 41, 219-227.	2.7	98
44	Influence of codon usage bias on FGLamide-allatostatin mRNA secondary structure. Peptides, 2011, 32, 509-517.	2.4	7
45	Design, synthesis and biological activity of peptidomimetic analogs of insect allatostatins. Peptides, 2011, 32, 581-586.	2.4	21
46	Evidence for differential biosynthesis of juvenile hormone (and related) sesquiterpenoids in Drosophila melanogaster. General and Comparative Endocrinology, 2011, 172, 56-61.	1.8	30
47	Comparative genomic and phylogenetic analysis of vitellogenin and other large lipid transfer proteins in metazoans. FEBS Letters, 2010, 584, 1273-1278.	2.8	74
48	The effects of farnesoic acid and 20-hydroxyecdysone on vitellogenin gene expression in the lobster, Homarus americanus, and possible roles in the reproductive process. General and Comparative Endocrinology, 2010, 166, 337-345.	1.8	27
49	Synthesis, Biological Activity, and Hologram Quantitative Structureâ^'Activity Relationships of Novel Allatostatin Analogues. Journal of Agricultural and Food Chemistry, 2010, 58, 2652-2658.	5.2	26
50	DrosophilaCG10527 mutants are resistant to juvenile hormone and its analog methoprene. Biochemical and Biophysical Research Communications, 2010, 401, 182-187.	2.1	16
51	Evolution and functional divergence of enzymes involved in sesquiterpenoid hormone biosynthesis in crustaceans and insects. Peptides, 2010, 31, 451-455.	2.4	55
52	Suppression of JH biosynthesis by JH analog treatment: Mechanism of suppression and roles of allatostatins and nervous connections in the cockroach Diploptera punctata. Journal of Insect Physiology, 2009, 55, 967-975.	2.0	6
53	Cloning and expression study of the lobster (Homarus americanus) vitellogenin: Conservation in gene structure among decapods. General and Comparative Endocrinology, 2009, 160, 36-46.	1.8	52
54	Effects of selected neuropeptides, mating status and castration on male reproductive tract movements and immunolocalization of neuropeptides in earwigs. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 152, 83-90.	1.8	12

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55	The synthesis and biological activity of linear and cyclic analogs of the two diuretic peptides of Diploptera punctata. Peptides, 2009, 30, 603-607.	2.4	2
56	A potential insect growth regulator: Synthesis and bioactivity of an allatostatin mimic. Peptides, 2009, 30, 1249-1253.	2.4	35
57	FGLamide Allatostatin genes in Arthropoda: Introns early or late?. Peptides, 2009, 30, 1241-1248.	2.4	4
58	Reconstruction of ancestral FGLamide-type insect allatostatins: A novel approach to the study of allatostatin function and evolution. Journal of Insect Physiology, 2008, 54, 959-968.	2.0	16
59	Quantification of allatostatin receptor mRNA levels in the cockroach, Diploptera punctata, using real-time PCR. Journal of Insect Physiology, 2008, 54, 981-987.	2.0	10
60	Characterization of the putative farnesoic acid O-methyltransferase (LvFAMeT) cDNA from white shrimp, Litopenaeus vannamei: Evidence for its role in molting. Peptides, 2008, 29, 252-260.	2.4	59
61	Molecular cloning and characterization of an allatostatin-like receptor in the cockroach Diploptera punctata. Peptides, 2008, 29, 276-285.	2.4	26
62	A Caenorhabditis elegans allatostatin/galanin-like receptor NPR-9 inhibits local search behavior in response to feeding cues. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1339-1342.	7.1	65
63	The role of neuropeptides in caterpillar nutritional ecology. Peptides, 2007, 28, 185-196.	2.4	45
64	The Role of Allatostatins in Juvenile Hormone Synthesis in Insects and Crustaceans. Annual Review of Entomology, 2007, 52, 277-299.	11.8	246
65	Proctolin: A possible releasing factor in the corpus cardiacum/corpus allatum of the locust. Peptides, 2006, 27, 559-566.	2.4	29
66	Bioinformatic analysis of neuropeptide and receptor expression profiles during midgut metamorphosis in Drosophila melanogaster. Peptides, 2006, 27, 583-589.	2.4	3
67	Characterization of vitellogenin in the shrimpMetapenaeus ensis: Expression studies and hormonal regulation ofMeVg1 transcription in vitro. Molecular Reproduction and Development, 2006, 73, 424-436.	2.0	53
68	Vitellogenesis in the red crabCharybdis feriatus: Hepatopancreas-specific expression and farnesoic acid stimulation of vitellogenin gene expression. Molecular Reproduction and Development, 2005, 70, 288-300.	2.0	128
69	Regulation of methyl farnesoate production by mandibular organs in the crayfish, Procambarus clarkii: A possible role for allatostatins. Journal of Insect Physiology, 2005, 51, 367-378.	2.0	38
70	Immunocytochemical analysis of putative allatostatin receptor (DAR-2) distribution in the CNS of larval Drosophila melanogaster. Peptides, 2005, 26, 81-87.	2.4	10
71	Purification and characterization of a mandibular organ protein from the American lobster, Homarus americanus: a putative farnesoic acid O-methyltransferase. Insect Biochemistry and Molecular Biology, 2004, 34, 785-798.	2.7	49
72	Crustacean neuropeptide genes of the CHH/MIH/GIH family: implications from molecular studies. General and Comparative Endocrinology, 2003, 134, 214-219.	1.8	132

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73	Quantification and visualization of Dippu-AST mRNA in the brain of adult Diploptera punctata: mated females vs. virgin females vs. males. Journal of Insect Physiology, 2003, 49, 285-291.	2.0	12
74	Immunolocalization of allatostatin-like neuropeptides and their putative receptor in eyestalks of the tiger prawn, Penaeus monodon. Peptides, 2003, 24, 1563-1570.	2.4	12
75	Myotropic Peptides in Drosophila Melanogaster And The Genes That Encode Them. Journal of Neurogenetics, 2002, 16, 1-28.	1.4	30
76	Drosophila melanogaster flatline encodes a myotropin orthologue to Manduca sexta allatostatin. Peptides, 2002, 23, 787-794.	2.4	61
77	Myotropic Peptides in Drosophila Melanogaster And The Genes That Encode Them. Journal of Neurogenetics, 2002, 16, 1-28.	1.4	2
78	Myotropic Peptides in Drosophila Melanogaster And The Genes That Encode Them. Journal of Neurogenetics, 2002, 16, 1-28.	1.4	26
79	Biosynthetic Pathway of Insect Juvenile Hormone III in Cell Suspension Cultures of the Sedge Cyperus iria. Plant Physiology, 2001, 127, 584-593.	4.8	37
80	Activity of insect juvenile hormone III: seed germination and seedling growth studies. Chemoecology, 2000, 10, 89-97.	1.1	11
81	Molecular characterization of a cDNA from the true armyworm Pseudaletia unipuncta encoding Manduca sexta allatotropin peptide1Peptide designations have been assigned using the first three letters of the Genus name followed by the first two letters of the species name as proposed by the insect neuropeptide community attending the 19th Winter Neuropeptide Symposium, Breckenridge, CO, 1998. This change was proposed to ensure a unique organism abbreviation as the number of organisms	2.7	53
82	Injection of Dip-allatostatin or Dip-allatostatin pseudopeptides into mated female Diploptera punctata inhibits endogenous rates of JH biosynthesis and basal oocyte growth. Insect Biochemistry and Molecular Biology, 2000, 30, 703-710.	2.7	28
83	The Regulation of Juvenile Hormone Production in Arthropods: Functional and Evolutionary Perspectives. Annals of the New York Academy of Sciences, 1999, 897, 300-310.	3.8	62
84	The molecular evolution of the allatostatin precursor in cockroaches. Peptides, 1999, 20, 11-22.	2.4	78
85	Effects of an allatostatin and a myosuppressin on midgut carbohydrate enzyme activity in the cockroach Diploptera punctata. Peptides, 1999, 20, 1285-1293.	2.4	115
86	Ecdysiostatins and Allatostatins in Schistocerca gregaria. Annals of the New York Academy of Sciences, 1998, 839, 301-305.	3.8	7
87	In situ hybridization analysis of leucomyosuppressin mRNA expression in the cockroach,Diploptera punctata. , 1998, 395, 328-341.		37
88	Synthesis, Biological Activity, and Conformational Studies of Insect Allatostatin Neuropeptide Analogues Incorporating Turn-Promoting Moieties1Dedicated to Professor Stuart Schreiber on the occasion of his award of the Tetrahedron Prize.1. Bioorganic and Medicinal Chemistry, 1998, 6, 1379-1388.	3.0	31
89	Degradation of Dip-Allatostatins by Hemolymph From the Cockroach, Diploptera punctata. Peptides, 1997, 18, 17-25.	2.4	35
90	Inactivation of Dip-Allatostatin 5 by Membrane Preparations from the CockroachDiploptera punctata. General and Comparative Endocrinology, 1997, 108, 258-270.	1.8	19

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91	Isolation and characterization of eight myoinhibiting peptides from the desert locust, Schistocerca gregaria: new members of the cockroach allatostatin family. Molecular and Cellular Endocrinology, 1996, 122, 183-190.	3.2	93
92	Molecular cloning of the precursor cDNA for schistostatins, locust allatostatin-like peptides with myoinhibiting properties. Molecular and Cellular Endocrinology, 1996, 122, 191-198.	3.2	73
93	Molecular characterization of a cDNA from Pseudaletia unipuncta encoding the Manduca sexta allatostatin peptide (Mas-AST). Insect Biochemistry and Molecular Biology, 1996, 26, 767-773.	2.7	69
94	Role of second messengers in the regulation of juvenile hormone production in insects, with particular emphasis on calcium and phosphoinositide signaling. Archives of Insect Biochemistry and Physiology, 1996, 33, 259-282.	1.5	32
95	Comparison of the Allatostatin Neuropeptide Precursors in the Distantly Related Cockroaches. Periplaneta Americana and Diploptera Punctata. FEBS Journal, 1995, 234, 737-746.	0.2	71
96	Allatostatins: Identification, Primary Structures, Functions and Distribution. Advances in Insect Physiology, 1995, , 267-337.	2.7	173
97	Juvenile hormones: Their role in the regulation of the pheromonal communication system of the armyworm moth,Pseudaletia unipuncta. Archives of Insect Biochemistry and Physiology, 1994, 25, 329-345.	1.5	46
98	Regulation of vitellogenin production in armyworm moths, Pseudaletia unipuncta. Journal of Insect Physiology, 1994, 40, 129-136.	2.0	51
99	Structure-activity studies of allatostatin 4 on the inhibition of juvenile hormone biosynthesis by corpora allata: The importance of individual side chains and stereochemistry. Peptides, 1994, 15, 1165-1171.	2.4	46
100	Assessment of the role of cyclic nucleotides in allatostatin-induced inhibition of juvenile hormone biosynthesis in Diploptera punctata. Molecular and Cellular Endocrinology, 1992, 89, 121-125.	3.2	14
101	Photoaffinity labeling of allatostatin receptor proteins in the corpora allata of the cockroach, Diploptera punctata. Biochemical and Biophysical Research Communications, 1991, 181, 736-742.	2.1	35
102	Hormonal regulation of behavioural development in the honey bee is based on changes in the rate of juvenile hormone biosynthesis. Journal of Insect Physiology, 1991, 37, 733-741.	2.0	155
103	Allatostatins. ACS Symposium Series, 1991, , 164-176.	0.5	20
104	Biosynthesis and release of juvenile hormone and its precursors in insects and crustaceans: The search for a unifying arthropod endocrinology. Insect Biochemistry, 1991, 21, 1-6.	1.8	84
105	Immunocytochemical mapping of neuronal pathways from brain to corpora cardiaca/corpora allata in the cockroach Diploptera punctata with antisera against Met-enkephalin-Arg6-Gly7-Leu8. Cell and Tissue Research, 1991, 263, 285-291.	2.9	11
106	In vitro biosynthesis of juvenile hormone by corpora allata of Pseudaletia unipuncta virgin females as a function of age, environmental conditions, calling behaviour and ovarian development. Journal of Insect Physiology, 1990, 36, 139-146.	2.0	66
107	In vitro inhibition of juvenile hormone synthesis by corpora allata of the viviparous cockroach, Diploptera punctata. Journal of Insect Physiology, 1986, 32, 151-156.	2.0	52
108	The effect of l-methionine concentration on juvenile hormone biosynthesis by corpora allata of the cockroach Diploptera punctata. Insect Biochemistry, 1985, 15, 175-179.	1.8	94

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109	Structure and Regulation of the Corpus Allatum. Advances in Insect Physiology, 1985, 18, 305-432.	2.7	330
110	Evidence for an inhibitory role of cyclic AMP in the control of juvenile hormone biosynthesis by cockroach corpora allata. Molecular and Cellular Endocrinology, 1985, 43, 155-163.	3.2	35
111	Ovarian and haemolymph titres of ecdysteroid during the gonadotrophic cycle in Diploptera punctata. Journal of Insect Physiology, 1984, 30, 643-651.	2.0	41
112	Ovarian stimulation of juvenile hormone biosynthesis in the viviparous cockroach, Diploptera punctata. General and Comparative Endocrinology, 1983, 52, 341-349.	1.8	59
113	Nervous and humoral inhibition of C16 juvenile hormone synthesis in last instar females of the viviparous cockroach, Diploptera punctata. General and Comparative Endocrinology, 1983, 49, 437-445.	1.8	39
114	Synthesis and degradation of C16 juvenile hormone (JH III) during the final two stadia of the cockroach, Diploptera punctata. General and Comparative Endocrinology, 1982, 48, 25-32.	1.8	53
115	Cellular and volumetric changes in relation to the activity cycle in the corpora allata of Diploptera punctata. Journal of Insect Physiology, 1981, 27, 655-665.	2.0	65
116	Vitellogenin fluctuations in haemolymph and fat body and dynamics of uptake into oÃ¶cytes during the reproductive cycle of Diploptera punctata. Journal of Insect Physiology, 1981, 27, 821-827.	2.0	53
117	A rapid partition assay for routine analysis of juvenile hormone release by insect corpora allata. Analytical Biochemistry, 1981, 111, 372-375.	2.4	209
118	Farnesoic acid stimulation of C16 juvenile hormone biosynthesis by corpora allata of adult female Diploptera punctata. Insect Biochemistry, 1981, 11, 401-409.	1.8	73
119	Control of juvenile hormone biosynthesis during the reproductive cycle of a viviparous cockroach. General and Comparative Endocrinology, 1980, 40, 89-98.	1.8	53
120	The allatostatic effect of 20-hydroxyecdysone on the adult viviparous cockroach, Diploptera punctata. Journal of Insect Physiology, 1980, 26, 665-670.	2.0	57
121	Induction of vitellogenin and growth of implanted oocytes in male cockroaches. Nature, 1979, 282, 97-98.	27.8	48
122	Corpus allatum function during sexual maturation of male Diploptera punctata. Physiological Entomology, 1979, 4, 79-86.	1.5	34
123	Control of juvenile hormone biosynthesis during the reproductive cycle of a viviparous cockroach II. Effects of unilateral allatectomy, implantation of supernumerary corpora allata, and ovariectomy. General and Comparative Endocrinology, 1978, 34, 276-286.	1.8	86
124	Control of juvenile hormone biosynthesis during the reproductive cycle of a viviparous cockroach. General and Comparative Endocrinology, 1977, 33, 531-540.	1.8	154
125	Corpus allatum activity in vitro during the reproductive cycle of the viviparous cockroach, Diploptera punctata (eschscholtz). General and Comparative Endocrinology, 1977, 31, 138-147.	1.8	163
126	The synthetic activity and glandular volume of the corpus allatum during ovarian maturation in the desert locust. Life Sciences, 1975, 17, 417-422.	4.3	47

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127	Juvenile hormones radiobiosynthesised by corpora allata of adult female locusts. Life Sciences, 1974, 14, 575-586.	4.3	371
128	The influence of substrate concentrations on the rate of insect juvenile hormone biosynthesis by corpora allata of the desert locust in vitro. Biochemical Journal, 1974, 144, 107-113.	3.7	286