

David B Sattelle

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177
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L-index

#	Paper	IF	Citations
177	The genome of the model beetle and pest <i>Tribolium castaneum</i> . <i>Nature</i> , 2008 , 452, 949-55	50.4	1043
176	Functional and evolutionary insights from the genomes of three parasitoid <i>Nasonia</i> species. <i>Science</i> , 2010 , 327, 343-8	33.3	682
175	Neonicotinoids: insecticides acting on insect nicotinic acetylcholine receptors. <i>Trends in Pharmacological Sciences</i> , 2001 , 22, 573-80	13.2	639
174	Thymol, a constituent of thyme essential oil, is a positive allosteric modulator of human GABA(A) receptors and a homo-oligomeric GABA receptor from <i>Drosophila melanogaster</i> . <i>British Journal of Pharmacology</i> , 2003 , 140, 1363-72	8.6	317
173	Genomic insights into the <i>Ixodes scapularis</i> tick vector of Lyme disease. <i>Nature Communications</i> , 2016 , 7, 10507	17.4	303
172	Insect ryanodine receptors: molecular targets for novel pest control chemicals. <i>Invertebrate Neuroscience</i> , 2008 , 8, 107-19	1.2	261
171	<i>Caenorhabditis elegans</i> levamisole resistance genes <i>lev-1</i> , <i>unc-29</i> , and <i>unc-38</i> encode functional nicotinic acetylcholine receptor subunits. <i>Journal of Neuroscience</i> , 1997 , 17, 5843-57	6.6	248
170	Improved reference genome of <i>Aedes aegypti</i> informs arbovirus vector control. <i>Nature</i> , 2018 , 563, 501-507	50.4	235
169	Actions of imidacloprid and a related nitromethylene on cholinergic receptors of an identified insect motor neurone. <i>Pest Management Science</i> , 1991 , 33, 197-204		224
168	Nicotinic acetylcholine receptor signalling: roles in Alzheimer's disease and amyloid neuroprotection. <i>Pharmacological Reviews</i> , 2009 , 61, 39-61	22.5	223
167	Molecular properties and functions of insect acetylcholine receptors. <i>Journal of Insect Physiology</i> , 1987 , 33, 771-790	2.4	178
166	Molecular biology of insect neuronal GABA receptors. <i>Trends in Neurosciences</i> , 1997 , 20, 578-83	13.3	170
165	Neuromuscular defects in a <i>Drosophila</i> survival motor neuron gene mutant. <i>Human Molecular Genetics</i> , 2003 , 12, 1367-76	5.6	159
164	Ion channels: molecular targets of neuroactive insecticides. <i>Invertebrate Neuroscience</i> , 2005 , 5, 119-33	1.2	155
163	Acetylcholine Receptors of Insects. <i>Advances in Insect Physiology</i> , 1980 , 15, 215-315	2.5	147
162	Neonicotinoids show selective and diverse actions on their nicotinic receptor targets: electrophysiology, molecular biology, and receptor modeling studies. <i>Bioscience, Biotechnology and Biochemistry</i> , 2005 , 69, 1442-52	2.1	142
161	The nicotinic acetylcholine receptor gene family of the honey bee, <i>Apis mellifera</i> . <i>Genome Research</i> , 2006 , 16, 1422-30	9.7	130

160	Functional genomics of the nicotinic acetylcholine receptor gene family of the nematode, <i>Caenorhabditis elegans</i> . <i>BioEssays</i> , 2004 , 26, 39-49	4.1	122
159	Actions of the insecticide fipronil, on dieldrin-sensitive and- resistant GABA receptors of <i>Drosophila melanogaster</i> . <i>British Journal of Pharmacology</i> , 1995 , 115, 909-12	8.6	118
158	The <i>Caenorhabditis elegans</i> unc-63 gene encodes a levamisole-sensitive nicotinic acetylcholine receptor alpha subunit. <i>Journal of Biological Chemistry</i> , 2004 , 279, 42476-83	5.4	112
157	GABA Receptors of Insects. <i>Advances in Insect Physiology</i> , 1990 , 1-113	2.5	112
156	The cys-loop ligand-gated ion channel gene superfamily of the red flour beetle, <i>Tribolium castaneum</i> . <i>BMC Genomics</i> , 2007 , 8, 327	4.5	110
155	Crystal structures of <i>Lymnaea stagnalis</i> AChBP in complex with neonicotinoid insecticides imidacloprid and clothianidin. <i>Invertebrate Neuroscience</i> , 2008 , 8, 71-81	1.2	110
154	Exploring the pharmacological properties of insect nicotinic acetylcholine receptors. <i>Trends in Pharmacological Sciences</i> , 2007 , 28, 14-22	13.2	108
153	Neonicotinoid insecticides display partial and super agonist actions on native insect nicotinic acetylcholine receptors. <i>Journal of Neurochemistry</i> , 2006 , 99, 608-15	6	106
152	Role in the selectivity of neonicotinoids of insect-specific basic residues in loop D of the nicotinic acetylcholine receptor agonist binding site. <i>Molecular Pharmacology</i> , 2006 , 70, 1255-63	4.3	102
151	The nicotinic acetylcholine receptor gene family of the malaria mosquito, <i>Anopheles gambiae</i> . <i>Genomics</i> , 2005 , 85, 176-87	4.3	99
150	Chemistry-to-gene screens in <i>Caenorhabditis elegans</i> . <i>Nature Reviews Drug Discovery</i> , 2005 , 4, 321-30	64.1	99
149	Diverse actions and target-site selectivity of neonicotinoids: structural insights. <i>Molecular Pharmacology</i> , 2009 , 76, 1-10	4.3	97
148	Diverse actions of neonicotinoids on chicken alpha7, alpha4beta2 and <i>Drosophila</i> -chicken SADbeta2 and ALSbeta2 hybrid nicotinic acetylcholine receptors expressed in <i>Xenopus laevis</i> oocytes. <i>Neuropharmacology</i> , 2003 , 45, 133-44	5.5	90
147	Alzheimer β disease: insights from <i>Drosophila melanogaster</i> models. <i>Trends in Biochemical Sciences</i> , 2010 , 35, 228-35	10.3	88
146	Novel animal-health drug targets from ligand-gated chloride channels. <i>Nature Reviews Drug Discovery</i> , 2002 , 1, 427-36	64.1	86
145	Is spinal muscular atrophy the result of defects in motor neuron processes?. <i>BioEssays</i> , 2005 , 27, 946-57	4.1	85
144	Insect nicotinic acetylcholine receptor gene families: from genetic model organism to vector, pest and beneficial species. <i>Invertebrate Neuroscience</i> , 2007 , 7, 67-73	1.2	83
143	The cys-loop ligand-gated ion channel superfamily of the honeybee, <i>Apis mellifera</i> . <i>Invertebrate Neuroscience</i> , 2006 , 6, 123-32	1.2	81

142	Fast, automated measurement of nematode swimming (thrashing) without morphometry. <i>BMC Neuroscience</i> , 2009 , 10, 84	3.2	78
141	GLC-3: a novel fipronil and BIDN-sensitive, but picrotoxinin-insensitive, L-glutamate-gated chloride channel subunit from <i>Caenorhabditis elegans</i> . <i>British Journal of Pharmacology</i> , 2001 , 132, 1247-54	8.6	78
140	The <i>Caenorhabditis elegans</i> lev-8 gene encodes a novel type of nicotinic acetylcholine receptor alpha subunit. <i>Journal of Neurochemistry</i> , 2005 , 93, 1-9	6	77
139	Inositol 1,4,5-trisphosphate receptors are strongly expressed in the nervous system, pharynx, intestine, gonad and excretory cell of <i>Caenorhabditis elegans</i> and are encoded by a single gene (<i>itr-1</i>). <i>Journal of Molecular Biology</i> , 1999 , 294, 467-76	6.5	76
138	Pharmacological properties of insect axons: A review. <i>Journal of Insect Physiology</i> , 1982 , 28, 889-903	2.4	76
137	Indoxacarb, an oxadiazine insecticide, blocks insect neuronal sodium channels. <i>British Journal of Pharmacology</i> , 2001 , 132, 587-95	8.6	74
136	Deletion of <i>smn-1</i> , the <i>Caenorhabditis elegans</i> ortholog of the spinal muscular atrophy gene, results in locomotor dysfunction and reduced lifespan. <i>Human Molecular Genetics</i> , 2009 , 18, 97-104	5.6	72
135	Neonicotinoid Insecticides: Molecular Targets, Resistance, and Toxicity. <i>Annual Review of Pharmacology and Toxicology</i> , 2020 , 60, 241-255	17.9	71
134	Effects of mutations of a glutamine residue in loop D of the alpha7 nicotinic acetylcholine receptor on agonist profiles for neonicotinoid insecticides and related ligands. <i>British Journal of Pharmacology</i> , 2002 , 137, 162-9	8.6	70
133	Pharmacological and biochemical properties of insect GABA receptors. <i>Trends in Pharmacological Sciences</i> , 1990 , 11, 325-9	13.2	69
132	Molecular Targets of Pyrethroid Insecticides. <i>Advances in Insect Physiology</i> , 1988 , 20, 147-213	2.5	69
131	The cys-loop ligand-gated ion channel gene superfamily of the nematode, <i>Caenorhabditis elegans</i> . <i>Invertebrate Neuroscience</i> , 2008 , 8, 41-7	1.2	67
130	Cotinine reduces amyloid- β aggregation and improves memory in Alzheimer's disease mice. <i>Journal of Alzheimer's Disease</i> , 2011 , 24, 817-35	4.3	64
129	The nicotinic acetylcholine receptors of the parasitic nematode <i>Ascaris suum</i> : formation of two distinct drug targets by varying the relative expression levels of two subunits. <i>PLoS Pathogens</i> , 2009 , 5, e1000517	7.6	64
128	Temperature-sensitive expression of <i>Drosophila</i> neuronal nicotinic acetylcholine receptors. <i>Journal of Neurochemistry</i> , 1997 , 68, 1812-9	6	64
127	Roles of loop C and the loop B-C interval of the nicotinic receptor alpha subunit in its selective interactions with imidacloprid in insects. <i>Neuroscience Letters</i> , 2004 , 363, 195-8	3.3	63
126	The nicotinic acetylcholine receptor gene family of the nematode <i>Caenorhabditis elegans</i> : an update on nomenclature. <i>Invertebrate Neuroscience</i> , 2007 , 7, 129-31	1.2	59
125	Pharmacology of insect GABA receptors. <i>Neurochemical Research</i> , 1991 , 16, 363-74	4.6	56

124	Glutamate-gated chloride channels of <i>Haemonchus contortus</i> restore drug sensitivity to ivermectin resistant <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2011 , 6, e22390	3.7	53
123	Splice-variant- and stage-specific RNA editing of the <i>Drosophila</i> GABA receptor modulates agonist potency. <i>Journal of Neuroscience</i> , 2009 , 29, 4287-92	6.6	53
122	Role of loop D of the alpha7 nicotinic acetylcholine receptor in its interaction with the insecticide imidacloprid and related neonicotinoids. <i>British Journal of Pharmacology</i> , 2000 , 130, 981-6	8.6	52
121	Whipworm and roundworm infections. <i>Nature Reviews Disease Primers</i> , 2020 , 6, 44	51.1	50
120	Super agonist actions of clothianidin and related compounds on the SAD beta 2 nicotinic acetylcholine receptor expressed in <i>Xenopus laevis</i> oocytes. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004 , 68, 761-3	2.1	49
119	Agonist pharmacology of two <i>Drosophila</i> GABA receptor splice variants. <i>British Journal of Pharmacology</i> , 1996 , 119, 1577-85	8.6	49
118	Modes of Action, Resistance and Toxicity of Insecticides Targeting Nicotinic Acetylcholine Receptors. <i>Current Medicinal Chemistry</i> , 2017 , 24, 2925-2934	4.3	49
117	Automated, high-throughput, motility analysis in <i>Caenorhabditis elegans</i> and parasitic nematodes: Applications in the search for new anthelmintics. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2014 , 4, 226-32	4	46
116	Presynaptic Depolarization Mediates Presynaptic Inhibition at a Synapse Between An Identified Mechanosensory Neurone and Giant Interneurone 3 in the First Instar Cockroach, <i>Periplaneta Americana</i> . <i>Journal of Experimental Biology</i> , 1987 , 127, 135-157	3	45
115	Novel alpha7-like nicotinic acetylcholine receptor subunits in the nematode <i>Caenorhabditis elegans</i> . <i>Protein Science</i> , 2002 , 11, 1162-71	6.3	44
114	An automated high-throughput system for phenotypic screening of chemical libraries on <i>C. elegans</i> and parasitic nematodes. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2018 , 8, 8-21	4	43
113	A novel <i>Caenorhabditis elegans</i> allele, <i>smn-1(cb131)</i> , mimicking a mild form of spinal muscular atrophy, provides a convenient drug screening platform highlighting new and pre-approved compounds. <i>Human Molecular Genetics</i> , 2011 , 20, 245-60	5.6	42
112	Actions of imidacloprid, clothianidin and related neonicotinoids on nicotinic acetylcholine receptors of American cockroach neurons and their relationships with insecticidal potency. <i>Journal of Pesticide Sciences</i> , 2006 , 31, 35-40	2.7	40
111	Comparative pharmacology and computational modelling yield insights into allosteric modulation of human alpha7 nicotinic acetylcholine receptors. <i>Biochemical Pharmacology</i> , 2009 , 78, 836-43	6	39
110	Allosteric modulation of an expressed homo-oligomeric GABA-gated chloride channel of <i>Drosophila melanogaster</i> . <i>British Journal of Pharmacology</i> , 1996 , 117, 1229-37	8.6	38
109	Mechanisms of Action, Resistance and Toxicity of Insecticides Targeting GABA Receptors. <i>Current Medicinal Chemistry</i> , 2017 , 24, 2935-2945	4.3	38
108	Co-existence in DUM neurones of two GluCl channels that differ in their picrotoxin sensitivity. <i>NeuroReport</i> , 2000 , 11, 2695-701	1.7	37
107	Proteins interacting with nicotinic acetylcholine receptors: expanding functional and therapeutic horizons. <i>Trends in Pharmacological Sciences</i> , 2010 , 31, 455-62	13.2	36

106	The nicotinic acetylcholine receptor gene family of the pufferfish, <i>Fugu rubripes</i> . <i>Genomics</i> , 2003 , 82, 441-51	4.3	36
105	Structure and function of two-pore-domain K ⁺ channels: contributions from genetic model organisms. <i>Trends in Pharmacological Sciences</i> , 2005 , 26, 361-7	13.2	35
104	Subtype-specific actions of beta-amyloid peptides on recombinant human neuronal nicotinic acetylcholine receptors (alpha7, alpha4beta2, alpha3beta4) expressed in <i>Xenopus laevis</i> oocytes. <i>British Journal of Pharmacology</i> , 2005 , 146, 964-71	8.6	35
103	Insect-vertebrate chimeric nicotinic acetylcholine receptors identify a region, loop B to the N-terminus of the <i>Drosophila</i> Dalpha2 subunit, which contributes to neonicotinoid sensitivity. <i>Neuroscience Letters</i> , 2005 , 385, 168-72	3.3	34
102	Strategies for automated analysis of <i>C. elegans</i> locomotion. <i>Invertebrate Neuroscience</i> , 2008 , 8, 121-31	1.2	33
101	Combinatorial mutations in loops D and F strongly influence responses of the alpha7 nicotinic acetylcholine receptor to imidacloprid. <i>Brain Research</i> , 2003 , 991, 71-7	3.7	33
100	Nicotinic acetylcholine receptors on a cholinergic nerve terminal in the cockroach, <i>Periplaneta americana</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1987 , 161, 215-25	2.3	33
99	The actions of the neonicotinoid imidacloprid on cholinergic neurons of <i>Drosophila melanogaster</i> . <i>Invertebrate Neuroscience</i> , 2006 , 6, 33-40	1.2	31
98	Actions of picrodendrin antagonists on dieldrin-sensitive and -resistant <i>Drosophila</i> GABA receptors. <i>British Journal of Pharmacology</i> , 1996 , 119, 1569-76	8.6	30
97	Nicotine increases [Ca ²⁺] _i and regulates electrical activity in insect neurosecretory cells (DUM neurons) via an acetylcholine receptor with mixed nicotinic-muscarinic pharmacology. <i>Neuroscience Letters</i> , 1996 , 220, 142-6	3.3	29
96	Effects of [3H]-BIDN, a novel bicyclic dinitrile radioligand for GABA-gated chloride channels of insects and vertebrates. <i>British Journal of Pharmacology</i> , 1997 , 121, 1496-505	8.6	27
95	A <i>Drosophila melanogaster</i> cell line (S2) facilitates post-genome functional analysis of receptors and ion channels. <i>BioEssays</i> , 2002 , 24, 1066-73	4.1	27
94	Single channel analysis of the blocking actions of BIDN and fipronil on a <i>Drosophila melanogaster</i> GABA receptor (RDL) stably expressed in a <i>Drosophila</i> cell line. <i>British Journal of Pharmacology</i> , 2000 , 130, 1833-42	8.6	27
93	Tick Genome Assembled: New Opportunities for Research on Tick-Host-Pathogen Interactions. <i>Frontiers in Cellular and Infection Microbiology</i> , 2016 , 6, 103	5.9	27
92	Cofactor-enabled functional expression of fruit fly, honeybee, and bumblebee nicotinic receptors reveals picomolar neonicotinoid actions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 16283-16291	11.5	24
91	Combined roles of loops C and D in the interactions of a neonicotinoid insecticide imidacloprid with the alpha4beta2 nicotinic acetylcholine receptor. <i>Neuropharmacology</i> , 2009 , 56, 264-72	5.5	24
90	Neuronal nitric oxide synthase gene transfer decreases [Ca ²⁺] _i in cardiac sympathetic neurons. <i>Journal of Molecular and Cellular Cardiology</i> , 2007 , 43, 717-25	5.8	24
89	The TRiC/CCT chaperone is implicated in Alzheimer's disease based on patient GWAS and an RNAi screen in Aβ-expressing <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2014 , 9, e102985	3.7	22

88	Studies on an acetylcholine binding protein identify a basic residue in loop G on the β strand as a new structural determinant of neonicotinoid actions. <i>Molecular Pharmacology</i> , 2014 , 86, 736-46	4.3	22
87	Prothoracicotropic hormone-producing neurosecretory cells in the silkworm, <i>Bombyx mori</i> , express a muscarinic acetylcholine receptor. <i>Brain Research</i> , 1997 , 763, 131-6	3.7	22
86	Localization in the nervous system of <i>Drosophila melanogaster</i> of a C-terminus anti-peptide antibody to a cloned <i>Drosophila</i> muscarinic acetylcholine receptor. <i>Journal of Neuroendocrinology</i> , 1995 , 7, 347-52	3.8	22
85	2,4-Diaminothieno[3,2-d]pyrimidines, a new class of anthelmintic with activity against adult and egg stages of whipworm. <i>PLoS Neglected Tropical Diseases</i> , 2018 , 12, e0006487	4.8	21
84	A hypothesis to account for the selective and diverse actions of neonicotinoid insecticides at their molecular targets, nicotinic acetylcholine receptors: catch and release in hydrogen bond networks. <i>Invertebrate Neuroscience</i> , 2007 , 7, 47-51	1.2	21
83	<i>Caenorhabditis elegans</i> in the study of SMN-interacting proteins: a role for SMI-1, an orthologue of human Gemin2 and the identification of novel components of the SMN complex. <i>Invertebrate Neuroscience</i> , 2006 , 6, 145-59	1.2	21
82	Actions of pyrethroid insecticides on insect axonal sodium channels. <i>Pest Management Science</i> , 1985 , 16, 651-661		21
81	Inhibitors of choline acetyltransferase as potential insecticides. <i>Pest Management Science</i> , 1975 , 6, 645-653		21
80	Exon 3 splicing and mutagenesis identify residues influencing cell surface density of heterologously expressed silkworm (<i>Bombyx mori</i>) glutamate-gated chloride channels. <i>Molecular Pharmacology</i> , 2014 , 86, 686-95	4.3	20
79	Invertebrate models of spinal muscular atrophy: insights into mechanisms and potential therapeutics. <i>BioEssays</i> , 2011 , 33, 956-65	4.1	19
78	Invertebrate nicotinic acetylcholine receptors -Targets for chemicals and drugs important in agriculture, veterinary medicine and human health. <i>Journal of Pesticide Sciences</i> , 2009 , 34, 233-240	2.7	19
77	Pre- and post-synaptic structures in insect CNS: intramembranous features and sites of alpha-bungarotoxin binding. <i>Tissue and Cell</i> , 1983 , 15, 921-37	2.7	19
76	Dihydrobenz[e][1,4]oxazepin-2(3H)-ones, a new anthelmintic chemotype immobilising whipworm and reducing infectivity in vivo. <i>PLoS Neglected Tropical Diseases</i> , 2017 , 11, e0005359	4.8	18
75	A role for Leu118 of loop E in agonist binding to the alpha 7 nicotinic acetylcholine receptor. <i>Molecular Pharmacology</i> , 2008 , 73, 1659-67	4.3	18
74	Ionic Basis of Membrane Potential and of Acetylcholine-evoked Currents in the Cell Body of the Cockroach Fast Coxal Depressor Motor Neurone. <i>Journal of Experimental Biology</i> , 1990 , 151, 21-39	3	18
73	Action of nereistoxin on recombinant neuronal nicotinic acetylcholine receptors expressed in <i>Xenopus laevis</i> oocytes. <i>Invertebrate Neuroscience</i> , 2003 , 5, 29-35	1.2	17
72	Actions of agonists, fipronil and ivermectin on the predominant in vivo splice and edit variant (RDLbd, I/V) of the <i>Drosophila</i> GABA receptor expressed in <i>Xenopus laevis</i> oocytes. <i>PLoS ONE</i> , 2014 , 9, e97468	3.7	17
71	Loops D, E and G in the <i>Drosophila</i> D β subunit contribute to high neonicotinoid sensitivity of D β -chicken α nicotinic acetylcholine receptor. <i>British Journal of Pharmacology</i> , 2018 , 175, 1999-2012	8.6	16

70	Potentiating and blocking actions of neonicotinoids on the response to acetylcholine of the neuronal .ALPHA.4.BETA.2 nicotinic acetylcholine receptor. <i>Journal of Pesticide Sciences</i> , 2008 , 33, 146-157	3.7	16
69	INVERTEBRATE VOLTAGE-DEPENDENT CALCIUM CHANNEL SUBTYPES. <i>Biological Reviews</i> , 1996 , 71, 137-154	13.5	16
68	SMN, the product of the spinal muscular atrophy-determining gene, is expressed widely but selectively in the developing human forebrain. <i>Journal of Comparative Neurology</i> , 2006 , 497, 808-16	3.4	15
67	pWormgatePro enables promoter-driven knockdown by hairpin RNA interference of muscle and neuronal gene products in <i>Caenorhabditis elegans</i> . <i>Invertebrate Neuroscience</i> , 2006 , 6, 5-12	1.2	15
66	A quasi-elastic laser light scattering study of tubulin and microtubule protein from bovine brain. <i>Journal of Molecular Biology</i> , 1982 , 160, 641-58	6.5	15
65	Actions of isothiocyanates on the central nervous system of <i>Periplaneta americana</i> . <i>Pest Management Science</i> , 1977 , 8, 735-746		15
64	Probing new components (loop G and the α -interface) of neonicotinoid binding sites on nicotinic acetylcholine receptors. <i>Pesticide Biochemistry and Physiology</i> , 2015 , 121, 47-52	4.9	14
63	Acetylcholine receptors of thoracic dorsal midline neurones in the cockroach, <i>Periplaneta Americana</i> . <i>Archives of Insect Biochemistry and Physiology</i> , 1992 , 21, 289-301	2.3	13
62	[N-Methyl-3H]Scopolamine binding sites in the central nervous system of the cockroach <i>Periplaneta americana</i> . <i>Archives of Insect Biochemistry and Physiology</i> , 1986 , 3, 339-347	2.3	13
61	Interactions of charatoxins and nereistoxin with the nicotinic acetylcholine receptors of insect CNS and <i>Torpedo</i> electric organ. <i>Archives of Insect Biochemistry and Physiology</i> , 1986 , 3, 431-445	2.3	13
60	Anthelmintic drug discovery: target identification, screening methods and the role of open science. <i>Beilstein Journal of Organic Chemistry</i> , 2020 , 16, 1203-1224	2.5	12
59	An antagonist of the retinoid X receptor reduces the viability of <i>Trichuris muris</i> in vitro. <i>BMC Infectious Diseases</i> , 2014 , 14, 520	4	12
58	<i>Xenopus laevis</i> RIC-3 enhances the functional expression of the <i>C. elegans</i> homomeric nicotinic receptor, ACR-16, in <i>Xenopus</i> oocytes. <i>Journal of Neurochemistry</i> , 2012 , 123, 911-8	6	12
57	Effects of amyloid peptides on A-type K ⁺ currents of <i>Drosophila</i> larval cholinergic neurons. <i>Journal of Neurobiology</i> , 2006 , 66, 476-87		12
56	Muscarinic acetylcholine receptors on an identified motor neurone in the cockroach, <i>Periplaneta americana</i> . <i>Neuroscience Letters</i> , 1994 , 175, 161-5	3.3	12
55	Cholinergic synaptic transmission in invertebrate central nervous systems [proceedings]. <i>Biochemical Society Transactions</i> , 1977 , 5, 849-52	5.1	12
54	Voltage-Independent Block of a Neuronal Nicotinic Acetylcholine Receptor by N-Methyl Lycaconitine. <i>Journal of Experimental Biology</i> , 1989 , 142, 215-224	3	12
53	Functional characterisation of a nicotinic acetylcholine receptor β -subunit from the brown dog tick, <i>Rhipicephalus sanguineus</i> . <i>International Journal for Parasitology</i> , 2014 , 44, 75-81	4.3	11

52	BIDN, a bicyclic dinitrile convulsant, selectively blocks GABA-gated Cl ⁻ channels. <i>Brain Research</i> , 1998 , 780, 20-6	3.7	11
51	Replacement of asparagine with arginine at the extracellular end of the second transmembrane (M2) region of insect GABA receptors increases sensitivity to penicillin G. <i>Invertebrate Neuroscience</i> , 2006 , 6, 75-9	1.2	11
50	Insecticidal and neural activities of candidate photoaffinity probes for neonicotinoid binding sites. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001 , 65, 1534-41	2.1	11
49	Insect toxins - selective pharmacological tools and drug/chemical leads. <i>Current Opinion in Insect Science</i> , 2018 , 30, 93-98	5.1	11
48	A Cys-loop mutation in the <i>Caenorhabditis elegans</i> nicotinic receptor subunit UNC-63 impairs but does not abolish channel function. <i>Journal of Biological Chemistry</i> , 2011 , 286, 2550-8	5.4	10
47	Polycyclic dinitriles: a novel class of potent GABAergic insecticides provides a new radioligand, [³ H]BIDN. <i>Invertebrate Neuroscience</i> , 1997 , 3, 261-8	1.2	10
46	Gene expression profiling studies on <i>Caenorhabditis elegans</i> dystrophin mutants dys-1(cx-35) and dys-1(cx18). <i>Genomics</i> , 2006 , 88, 642-9	4.3	10
45	Gene silencing of selected calcium-signalling molecules in a <i>Drosophila</i> cell line using double-stranded RNA interference. <i>Cell Calcium</i> , 2004 , 35, 131-9	4	10
44	Characterization of phenylalkylamine binding sites in insect (<i>Periplaneta americana</i>) nervous system and skeletal muscle membranes. <i>Archives of Insect Biochemistry and Physiology</i> , 1993 , 23, 111-124 ²⁻³	2.3	10
43	Improved <i>Aedes aegypti</i> mosquito reference genome assembly enables biological discovery and vector control		10
42	Functional genomics of ionotropic acetylcholine receptors in <i>Caenorhabditis elegans</i> and <i>Drosophila melanogaster</i> . <i>Novartis Foundation Symposium</i> , 2002 , 245, 240-57; discussion 257-60, 261-4		10
41	Functional Genomics of Ionotropic Acetylcholine Receptors in <i>Caenorhabditis elegans</i> and <i>Drosophila melanogaster</i> . <i>Novartis Foundation Symposium</i> , 2008 , 240-260		9
40	Bicuculline-insensitive GABA-gated Cl ⁻ channels in the larval nervous system of the moth <i>Manduca sexta</i> . <i>Invertebrate Neuroscience</i> , 2003 , 5, 37-43	1.2	9
39	Okaramine insecticidal alkaloids show similar activity on both exon 3c and exon 3b variants of glutamate-gated chloride channels of the larval silkworm, <i>Bombyx mori</i> . <i>NeuroToxicology</i> , 2017 , 60, 240-244 ⁴⁻⁴	4.4	8
38	Combined effects of mutations in loop C and the loop D-E-G triangle on neonicotinoid interactions with <i>Drosophila</i> D1/chicken α hybrid nAChRs. <i>Pesticide Biochemistry and Physiology</i> , 2018 , 151, 47-52	4.9	8
37	Responses to Neonicotinoids of Chicken .ALPHA.7 Nicotinic Acetylcholine Receptors: Effects of Mutations of Isoleucine 191 in Loop F to Aromatic Residues. <i>Journal of Pesticide Sciences</i> , 2004 , 29, 364-368 ²⁻⁷	2.7	8
36	The effects of amyloid peptides on A-type K(+) currents of <i>Drosophila</i> larval cholinergic neurons: modeled actions on firing properties. <i>Invertebrate Neuroscience</i> , 2006 , 6, 207-13	1.2	7
35	Mechanism of Selective Actions of Neonicotinoids on Insect Nicotinic Acetylcholine Receptors. <i>ACS Symposium Series</i> , 2004 , 172-182	0.4	7

34	Mapping membrane potential transients in crayfish (<i>Procambarus clarkii</i>) optic lobe neuropils with voltage-sensitive dyes. <i>Journal of Neurophysiology</i> , 1999 , 81, 334-44	3.2	7
33	Cross-resistance with dieldrin of a novel tricyclic dinitrile GABA receptor antagonist. <i>British Journal of Pharmacology</i> , 1999 , 127, 1305-7	8.6	7
32	Genetic analysis of cholinergic nerve terminal function in invertebrates. <i>Journal of Neurocytology</i> , 1996 , 25, 747-62		7
31	Actions of a coral toxin analogue (bipinnatin-B) on an insect nicotinic acetylcholine receptor. <i>Archives of Insect Biochemistry and Physiology</i> , 1993 , 23, 155-9	2.3	7
30	Calcium Conductance in An Identified Cholinergic Synaptic Terminal in the Central Nervous System of the Cockroach. <i>Journal of Experimental Biology</i> , 1987 , 129, 347-364	3	7
29	Alternative splicing of the <i>Anopheles gambiae</i> nicotinic acetylcholine receptor, Agamalphabeta9, generates both alpha and beta subunits. <i>Invertebrate Neuroscience</i> , 2009 , 9, 77-84	1.2	6
28	The Abeta1-42M35C mutated amyloid peptide Abeta1-42 and the 25-35 fragment fail to mimic the subtype-specificity of actions on recombinant human nicotinic acetylcholine receptors (alpha7, alpha4beta2, alpha3beta4). <i>Neuroscience Letters</i> , 2007 , 427, 28-33	3.3	6
27	Neosurugatoxin blocks an alpha-bungarotoxin-sensitive neuronal nicotinic acetylcholine receptor. <i>Archives of Insect Biochemistry and Physiology</i> , 1993 , 23, 161-7	2.3	6
26	<i>C. elegans</i> expressing D76N β microglobulin: a model for in vivo screening of drug candidates targeting amyloidosis. <i>Scientific Reports</i> , 2019 , 9, 19960	4.9	6
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24	Pharmacologically distinct calcium channels are present in insect nervous system and skeletal muscle. <i>Insect Biochemistry and Molecular Biology</i> , 1992 , 22, 539-545	4.5	5
23	An L319F mutation in transmembrane region 3 (TM3) selectively reduces sensitivity to okaramine B of the <i>Bombyx mori</i> l-glutamate-gated chloride channel. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017 , 81, 1861-1867	2.1	4
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21	Internal presynaptic tetraethylammonium (TEA ⁺) blocks cholinergic transmission at a synapse between identified neurones. <i>Neuroscience Letters</i> , 1987 , 73, 161-6	3.3	4
20	Structural Requirements for Dihydrobenzoxazepinone Anthelmintics: Actions against Medically Important and Model Parasites: , , and. <i>ACS Infectious Diseases</i> , 2021 , 7, 1260-1274	5.5	4
19	Automated phenotyping of mosquito larvae enables high-throughput screening for novel larvicides and offers potential for smartphone-based detection of larval insecticide resistance. <i>PLoS Neglected Tropical Diseases</i> , 2021 , 15, e0008639	4.8	4
18	Functional characterization of a mutated chicken alpha7 nicotinic acetylcholine receptor subunit with a leucine residue inserted in transmembrane domain 2. <i>British Journal of Pharmacology</i> , 1998 , 124, 747-55	8.6	3
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15	Actions on mammalian and insect nicotinic acetylcholine receptors of harmonine-containing alkaloid extracts from the harlequin ladybird <i>Harmonia axyridis</i> . <i>Pesticide Biochemistry and Physiology</i> , 2020 , 166, 104561		4.9 2
14	Actions of snake neurotoxins on an insect nicotinic cholinergic synapse. <i>Invertebrate Neuroscience</i> , 2007 , 7, 173-8		1.2 2
13	Quasi-elastic laser light-scattering studies of size and dispersity of secretory vesicles and neurosecretosomes isolated from vertebrate neurohypophyses. <i>Biochemical Society Transactions</i> , 1991 , 19, 501		5.1 2
12	Insecticide action on GABAergic Cl flux in insect central nervous system. <i>Biochemical Society Transactions</i> , 1988 , 16, 303-303		5.1 2
11	Dr. Kathleen Drew-Baker, "Mother of the Sea", a Manchester scientist celebrated each year for half a century in Japan. <i>BioEssays</i> , 2013 , 35, 838-9		4.1 1
10	Alpha7 mutants mimicking atypical motifs (YxxCC of loop-C, and E to H at -1Pn TM2) in the <i>C. elegans</i> LEV-8 subunit affect nicotinic acetylcholine receptor function. <i>Invertebrate Neuroscience</i> , 2006 , 6, 69-73		1.2 1
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7	Actions of Camptothecin Derivatives on Larvae and Adults of the Arboviral Vector. <i>Molecules</i> , 2021 , 26,		4.8 1
6	2,4-Diaminothieno[3,2-d]pyrimidines, a new class of anthelmintic with activity against adult and egg stages of whipworm		1
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4	Acetylcholine Receptors of Identified Insect Neurons. <i>Novartis Foundation Symposium</i> , 12-31		1
3	Turning a Drug Target into a Drug Candidate: A New Paradigm for Neurological Drug Discovery?. <i>BioEssays</i> , 2020 , 42, e2000011		4.1 0
2	Calcium signalling in mammalian cell lines expressing wild type and mutant human α -Antitrypsin. <i>Scientific Reports</i> , 2019 , 9, 17293		4.9 0
1	1P-236 Crystal structures of an acetylcholine binding protein complexed with neonicotinoids(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008 , 48, S58		0