

Makoto Ihara

List of Publications by Year in descending order

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57
papers

2,386
citations

257450

24
h-index

206112

48
g-index

57
all docs

57
docs citations

57
times ranked

1942
citing authors

#	ARTICLE	IF	CITATIONS
1	SIMULTANEOUS ESTABLISHMENT OF MONOCLONAL ANTIBODIES SPECIFIC FOR EITHER CYCLOBUTANE PYRIMIDINE DIMER OR (6 α)PHOTOPRODUCT FROM THE SAME MOUSE IMMUNIZED WITH ULTRAVIOLET α IRRADIATED DNA. <i>Photochemistry and Photobiology</i> , 1991, 54, 225-232.	2.5	413
2	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, 1442-1452.	1.3	175
3	Neonicotinoid Insecticides: Molecular Targets, Resistance, and Toxicity. <i>Annual Review of Pharmacology and Toxicology</i> , 2020, 60, 241-255.	9.4	168
4	Crystal structures of <i>Lymnaea stagnalis</i> AChBP in complex with neonicotinoid insecticides imidacloprid and clothianidin. <i>Invertebrate Neuroscience</i> , 2008, 8, 71-81.	1.8	135
5	Neonicotinoid insecticides display partial and super agonist actions on native insect nicotinic acetylcholine receptors. <i>Journal of Neurochemistry</i> , 2006, 99, 608-615.	3.9	127
6	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, 1255-1263.	2.3	114
7	Diverse actions of neonicotinoids on chicken $\alpha 7$, $\alpha 4$ and <i>Drosophila</i> "chicken $\alpha 2$ and $\alpha 2$ hybrid nicotinic acetylcholine receptors expressed in <i>Xenopus laevis</i> oocytes. <i>Neuropharmacology</i> , 2003, 45, 133-144.	4.1	102
8	Neonicotinoids: molecular mechanisms of action, insights into resistance and impact on pollinators. <i>Current Opinion in Insect Science</i> , 2018, 30, 86-92.	4.4	85
9	Modes of Action, Resistance and Toxicity of Insecticides Targeting Nicotinic Acetylcholine Receptors. <i>Current Medicinal Chemistry</i> , 2017, 24, 2925-2934.	2.4	74
10	Role of loop D of the $\alpha 7$ nicotinic acetylcholine receptor in its interaction with the insecticide imidacloprid and related neonicotinoids. <i>British Journal of Pharmacology</i> , 2000, 130, 981-986.	5.4	66
11	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.	7.1	61
12	Mechanisms of Action, Resistance and Toxicity of Insecticides Targeting GABA Receptors. <i>Current Medicinal Chemistry</i> , 2017, 24, 2935-2945.	2.4	58
13	Super Agonist Actions of Clothianidin and Related Compounds on the $\alpha 2$ Nicotinic Acetylcholine Receptor Expressed in <i>Xenopus laevis</i> Oocytes. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 761-763.	1.3	57
14	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.	1.4	45
15	Comparative ecotoxicity of imidacloprid and dinotefuran to aquatic insects in rice mesocosms. <i>Ecotoxicology and Environmental Safety</i> , 2017, 138, 122-129.	6.0	42
16	GluCl a target of indole alkaloid okaramines: a 25 year enigma solved. <i>Scientific Reports</i> , 2014, 4, 6190.	3.3	41
17	Flupyrimin: A Novel Insecticide Acting at the Nicotinic Acetylcholine Receptors. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 7865-7873.	5.2	40
18	Insect-vertebrate chimeric nicotinic acetylcholine receptors identify a region, loop B to the N-terminus of the <i>Drosophila</i> $\alpha 2$ subunit, which contributes to neonicotinoid sensitivity. <i>Neuroscience Letters</i> , 2005, 385, 168-172.	2.1	37

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19	Studies on an Acetylcholine Binding Protein Identify a Basic Residue in Loop G on the $\alpha 1$ Strand as a New Structural Determinant of Neonicotinoid Actions. <i>Molecular Pharmacology</i> , 2014, 86, 736-746.	2.3	35
20	A dual-target molecular mechanism of pyrethrum repellency against mosquitoes. <i>Nature Communications</i> , 2021, 12, 2553.	12.8	31
21	Biosynthesis and Structure-Activity Relationship Studies of Okaramines That Target Insect Glutamate-Gated Chloride Channels. <i>ACS Chemical Biology</i> , 2018, 13, 561-566.	3.4	29
22	Differential blocking actions of 4-ethynyl-4-n-propylbicycloorthobenzoate (EBOB) and β -hexachlorocyclohexane (β -HCH) on β -aminobutyric acid- and glutamate-induced responses of American cockroach neurons. <i>Invertebrate Neuroscience</i> , 2005, 5, 157-164.	1.8	28
23	Action of six pyrethrins purified from the botanical insecticide pyrethrum on cockroach sodium channels expressed in <i>Xenopus oocytes</i> . <i>Pesticide Biochemistry and Physiology</i> , 2018, 151, 82-89.	3.6	25
24	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, 686-695.	2.3	24
25	Action of nereistoxin on recombinant neuronal nicotinic acetylcholine receptors expressed in <i>Xenopus laevis oocytes</i> . <i>Invertebrate Neuroscience</i> , 2003, 5, 29-35.	1.8	23
26	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.	1.8	22
27	Loops D, E and G in the <i>Drosophila</i> $\alpha 1$ subunit contribute to high neonicotinoid sensitivity of $\alpha 1\beta 2$ nicotinic acetylcholine receptor. <i>British Journal of Pharmacology</i> , 2018, 175, 1999-2012.	5.4	22
28	Meroterpenoid Chrodrimanins Are Selective and Potent Blockers of Insect GABA-Gated Chloride Channels. <i>PLoS ONE</i> , 2015, 10, e0122629.	2.5	22
29	GFP-based evaluation system of recombinant expression through the secretory pathway in insect cells and its application to the extracellular domains of class C GPCRs. <i>Protein Science</i> , 2011, 20, 1720-1734.	7.6	20
30	Probing new components (loop G and the $\alpha 1\beta 2$ interface) of neonicotinoid binding sites on nicotinic acetylcholine receptors. <i>Pesticide Biochemistry and Physiology</i> , 2015, 121, 47-52.	3.6	20
31	Molecular Bases of Multimodal Regulation of a Fungal Transient Receptor Potential (TRP) Channel. <i>Journal of Biological Chemistry</i> , 2013, 288, 15303-15317.	3.4	19
32	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, 146-151.	1.4	18
33	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.	3.0	17
34	Blocking actions of alkylene-tethered bis-neonicotinoids on nicotinic acetylcholine receptors expressed by terminal abdominal ganglion neurons of <i>Periplaneta americana</i> . <i>Neuroscience Letters</i> , 2007, 425, 137-140.	2.1	16
35	STAT3 inhibitory activity of naphthoquinones isolated from <i>Tabebuia avellanadae</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115347.	3.0	14
36	Proinsecticide candidates N-(5-methyl-2-oxo-1,3-dioxol-4-yl)methyl derivatives of imidacloprid and 1-chlorothiazolylmethyl-2-nitroimino-imidazolidine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 4500-4503.	2.2	13

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37	Metabolome Analysis Identified Okaramines in the Soybean Rhizosphere as a Legacy of Hairy Vetch. <i>Frontiers in Genetics</i> , 2020, 11, 114.	2.3	13
38	PREFERENTIAL INHIBITION OF NUCLEOSOME ASSEMBLY BY ULTRAVIOLET-INDUCED (6-4)PHOTOPRODUCTS. <i>Photochemistry and Photobiology</i> , 1995, 61, 459-462.	2.5	11
39	Insecticidal and Neural Activities of Candidate Photoaffinity Probes for Neonicotinoid Binding Sites. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001, 65, 1534-1541.	1.3	11
40	High-resolution Native-PAGE for membrane proteins capable of fluorescence detection and hydrodynamic state evaluation. <i>Analytical Biochemistry</i> , 2011, 412, 217-223.	2.4	11
41	Ivermectin modulation of pH-sensitive chloride channels in the silkworm larvae of <i>Bombyx mori</i> . <i>Pesticide Biochemistry and Physiology</i> , 2016, 126, 1-5.	3.6	11
42	Combined effects of mutations in loop C and the loop D-E-G triangle on neonicotinoid interactions with <i>Drosophila</i> D1/chicken $\beta 2$ hybrid nAChRs. <i>Pesticide Biochemistry and Physiology</i> , 2018, 151, 47-52.	3.6	11
43	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.	1.3	10
44	Identification of multiple odorant receptors essential for pyrethrum repellency in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2021, 17, e1009677.	3.5	10
45	The mechanism of loop C-neonicotinoid interactions at insect nicotinic acetylcholine receptor $\beta 1$ subunit predicts resistance emergence in pests. <i>Scientific Reports</i> , 2020, 10, 7529.	3.3	9
46	The fungal alkaloid Okaramine-B activates an L-glutamate-gated chloride channel from <i>Ixodes scapularis</i> , a tick vector of Lyme disease. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2018, 8, 350-360.	3.4	8
47	Isolation and identification of histamine-release inhibitors from <i>Pistacia weinmannifolia</i> J. Pisson ex. Franch. <i>Journal of Natural Medicines</i> , 2006, 60, 138-140.	2.3	7
48	Selective regulation of pyrethrin biosynthesis by the specific blend of wound induced volatiles in <i>Tanacetum cinerariifolium</i> . <i>Plant Signaling and Behavior</i> , 2016, 11, e1149675.	2.4	7
49	Availability of NHS-biotin labeling to identify free protein lysine revealed by experiment and MD simulation. <i>Analytical Biochemistry</i> , 2018, 557, 46-58.	2.4	6
50	Cy3-3-acylcholine: A fluorescent analogue of acetylcholine for single molecule detection. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 1106-1109.	2.2	5
51	A single amino acid polymorphism in the <i>Drosophila melanogaster</i> D1 (ALS) subunit enhances neonicotinoid efficacy at D1-chicken $\beta 2$ hybrid nicotinic acetylcholine receptor expressed in <i>Xenopus laevis</i> oocytes. <i>Bioscience, Biotechnology and Biochemistry</i> , 2014, 78, 543-549.	1.3	4
52	Splice Variants of pH-Sensitive Chloride Channel Identify a Key Determinant of Ivermectin Sensitivity in the Larvae of the Silkworm <i>Bombyx mori</i> . <i>Molecular Pharmacology</i> , 2017, 92, 491-499.	2.3	4
53	Ligand-gated ion channels as targets of neuroactive insecticides. <i>Bioscience, Biotechnology and Biochemistry</i> , 2022, 86, 157-164.	1.3	4
54	Effects of cofactors RIC-3, TMX3 and UNC-50, together with distinct subunit ratios on the agonist actions of imidacloprid on <i>Drosophila melanogaster</i> D1/D1 nicotinic acetylcholine receptors expressed in <i>Xenopus laevis</i> oocytes. <i>Pesticide Biochemistry and Physiology</i> , 2022, 187, 105177.	3.6	3

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55	Mechanisms of action of insecticides on ligand-gated ion channels. <i>Journal of Pesticide Sciences</i> , 2007, 32, 278-280.	1.4	2
56	General flexible nature of the cytosolic regions of fungal transient receptor potential (TRP) channels, revealed by expression screening using GFP α -fusion techniques. <i>Protein Science</i> , 2014, 23, 923-931.	7.6	1
57	Competitive chrodriamanin B interactions with rat brain GABA _A receptors revealed by radioligand binding assays. <i>Pesticide Biochemistry and Physiology</i> , 2022, 183, 105074.	3.6	0