

Richard John Martin

List of Publications by Year in descending order

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84
papers

2,486
citations

186265
28
h-index

243625
44
g-index

90
all docs

90
docs citations

90
times ranked

1817
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in our understanding of nematode ion channels as potential anthelmintic targets. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2022, 18, 52-86.	3.4	11
2	Ivermectin: An Anthelmintic, an Insecticide, and Much More. <i>Trends in Parasitology</i> , 2021, 37, 48-64.	3.3	94
3	The narrow-spectrum anthelmintic oxantel is a potent agonist of a novel acetylcholine receptor subtype in whipworms. <i>PLoS Pathogens</i> , 2021, 17, e1008982.	4.7	10
4	Recording drug responses from adult <i>Dirofilaria immitis</i> pharyngeal and somatic muscle cells. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2021, 15, 1-8.	3.4	2
5	Filaricidal activity of <i>Daniellia oliveri</i> and <i>Psorospermum febrifugum</i> extracts. <i>Parasites and Vectors</i> , 2021, 14, 305.	2.5	4
6	Anthelmintic resistance and homeostatic plasticity (<i>Brugia malayi</i>). <i>Scientific Reports</i> , 2021, 11, 14499.	3.3	7
7	Where are all the anthelmintics? Challenges and opportunities on the path to new anthelmintics. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2020, 14, 8-16.	3.4	54
8	Diethylcarbamazine activates TRP channels including TRP-2 in filaria, <i>Brugia malayi</i> . <i>Communications Biology</i> , 2020, 3, 398.	4.4	20
9	Adapting techniques for calcium imaging in muscles of adult <i>Brugia malayi</i> . <i>Invertebrate Neuroscience</i> , 2020, 20, 12.	1.8	5
10	Cholinergic receptors on intestine cells of <i>Ascaris suum</i> and activation of nAChRs by levamisole. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2020, 13, 38-50.	3.4	7
11	EAT-18 is an essential auxiliary protein interacting with the non-alpha nAChR subunit EAT-2 to form a functional receptor. <i>PLoS Pathogens</i> , 2020, 16, e1008396.	4.7	17
12	Pharmacological characterization of a homomeric nicotinic acetylcholine receptor formed by <i>Ancylostoma caninum</i> ACR-16. <i>Invertebrate Neuroscience</i> , 2019, 19, 11.	1.8	11
13	Emodepside has sex-dependent immobilizing effects on adult <i>Brugia malayi</i> due to a differentially spliced binding pocket in the RCK1 region of the SLO-1 K channel. <i>PLoS Pathogens</i> , 2019, 15, e1008041.	4.7	30
14	Menthol acts as a positive allosteric modulator on nematode levamisole sensitive nicotinic acetylcholine receptors. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2019, 9, 44-53.	3.4	12
15	Nuclear option prevents hyperinfection in the <i>Strongyloides</i> worm war. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9-11.	7.1	10
16	Monepantel is a non-competitive antagonist of nicotinic acetylcholine receptors from <i>Ascaris suum</i> and <i>Oesophagostomum dentatum</i> . <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2018, 8, 36-42.	3.4	7
17	Anthelmintics “From Discovery to Resistance III (Indian Rocks Beach, FL, 2018). <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2018, 8, 494-495.	3.4	0
18	Functional genomics in <i>Brugia malayi</i> reveal diverse muscle nAChRs and differences between cholinergic anthelmintics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5539-5544.	7.1	35

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19	(S)-5-ethynyl-anabasine, a novel compound, is a more potent agonist than other nicotine alkaloids on the nematode Asu -ACR-16 receptor. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2017, 7, 12-22.	3.4	4
20	A brief review on the mode of action of antinematodal drugs. <i>Acta Veterinaria</i> , 2017, 67, 137-152.	0.5	80
21	Pharmacological profile of <i>Ascaris suum</i> ACR-16, a new homomeric nicotinic acetylcholine receptor widely distributed in <i>Ascaris</i> tissues. <i>British Journal of Pharmacology</i> , 2016, 173, 2463-2477.	5.4	34
22	The cholinomimetic morantel as an open channel blocker of the <i>Ascaris suum</i> ACR-16 nAChR. <i>Invertebrate Neuroscience</i> , 2016, 16, 10.	1.8	6
23	The <i>Ascaris suum</i> nicotinic receptor, ACR-16, as a drug target: Four novel negative allosteric modulators from virtual screening. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2016, 6, 60-73.	3.4	16
24	Curiouser and Curiouser: The Macrocyclic Lactone, Abamectin, Is also a Potent Inhibitor of Pyrantel/Tribendimidine Nicotinic Acetylcholine Receptors of Gastro-Intestinal Worms. <i>PLoS ONE</i> , 2016, 11, e0146854.	2.5	16
25	Polyanhydride Nanoparticle Delivery Platform Dramatically Enhances Killing of Filarial Worms. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0004173.	3.0	37
26	The Conqueror Worm: recent advances with cholinergic anthelmintics and techniques excite research for better therapeutic drugs. <i>Journal of Helminthology</i> , 2015, 89, 387-397.	1.0	13
27	Tribendimidine: Mode of Action and nAChR Subtype Selectivity in <i>Ascaris</i> and <i>Oesophagostomum</i> . <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003495.	3.0	20
28	Interaction of carvacrol with the <i>Ascaris suum</i> nicotinic acetylcholine receptors and gamma-aminobutyric acid receptors, potential mechanism of antinematodal action. <i>Parasitology Research</i> , 2015, 114, 3059-3068.	1.6	28
29	Anthelmintics: The best way to predict the future is to create it. <i>Veterinary Parasitology</i> , 2015, 212, 18-24.	1.8	4
30	RNA interference in adult <i>Ascaris suum</i> – an opportunity for the development of a functional genomics platform that supports organism-, tissue- and cell-based biology in a nematode parasite. <i>International Journal for Parasitology</i> , 2015, 45, 673-678.	3.1	42
31	Proteomic Analysis of Adult <i>Ascaris suum</i> Fluid Compartments and Secretory Products. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e2939.	3.0	55
32	Diethylcarbamazine Increases Activation of Voltage-Activated Potassium (SLO-1) Currents in <i>Ascaris suum</i> and Potentiates Effects of Emodepside. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e3276.	3.0	6
33	Investigation of Acetylcholine Receptor Diversity in a Nematode Parasite Leads to Characterization of Tribendimidine- and Derquantel-Sensitive nAChRs. <i>PLoS Pathogens</i> , 2014, 10, e1003870.	4.7	46
34	Recent advances in candidate-gene and whole-genome approaches to the discovery of anthelmintic resistance markers and the description of drug/receptor interactions. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2014, 4, 164-184.	3.4	149
35	Anthelmintics – From Discovery to Resistance. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2014, 4, 218-219.	3.4	23
36	Transcriptomic evaluation of the nicotinic acetylcholine receptor pathway in levamisole-resistant and -sensitive <i>Oesophagostomum dentatum</i> . <i>Molecular and Biochemical Parasitology</i> , 2014, 193, 66-70.	1.1	4

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37	Computational cloning of drug target genes of a parasitic nematode, <i>Oesophagostomum dentatum</i> . <i>BMC Genetics</i> , 2013, 14, 55.	2.7	4
38	Derquantel and abamectin: Effects and interactions on isolated tissues of <i>Ascaris suum</i> . <i>Molecular and Biochemical Parasitology</i> , 2013, 188, 79-86.	1.1	25
39	Whole-cell patch-clamp recording of nicotinic acetylcholine receptors in adult <i>Brugia malayi</i> muscle. <i>Parasitology International</i> , 2013, 62, 616-618.	1.3	20
40	Micro-electro-fluidic grids for nematodes: a lens-less, image-sensor-less approach for on-chip tracking of nematode locomotion. <i>Lab on A Chip</i> , 2013, 13, 650-661.	6.0	24
41	Emodepside and SLO-1 potassium channels: A review. <i>Experimental Parasitology</i> , 2012, 132, 40-46.	1.2	32
42	An integrated fiber-optic microfluidic device for detection of muscular force generation of microscopic nematodes. <i>Lab on A Chip</i> , 2012, 12, 3458.	6.0	18
43	Selective effect of the anthelmintic buphenium on <i>Haemonchus contortus</i> levamisole-sensitive acetylcholine receptors. <i>Invertebrate Neuroscience</i> , 2012, 12, 43-51.	1.8	11
44	Levamisole receptors: a second awakening. <i>Trends in Parasitology</i> , 2012, 28, 289-296.	3.3	73
45	ACR-26: A novel nicotinic receptor subunit of parasitic nematodes. <i>Molecular and Biochemical Parasitology</i> , 2012, 183, 151-157.	1.1	10
46	A microfluidic platform for high-sensitivity, real-time drug screening on <i>C. elegans</i> and parasitic nematodes. <i>Lab on A Chip</i> , 2011, 11, 2385.	6.0	78
47	Anthelmintic resistance: markers for resistance, or susceptibility?. <i>Parasitology</i> , 2011, 138, 160-174.	1.5	96
48	Microfluidic bioassay to characterize parasitic nematode phenotype and anthelmintic resistance. <i>Parasitology</i> , 2011, 138, 80-88.	1.5	19
49	On the mode of action of emodepside: slow effects on membrane potential and voltage-activated currents in <i>Ascaris suum</i> . <i>British Journal of Pharmacology</i> , 2011, 164, 453-470.	5.4	25
50	Single-channel recording from adult <i>Brugia malayi</i> . <i>Invertebrate Neuroscience</i> , 2011, 11, 53-57.	1.8	18
51	Levamisole and ryanodine receptors (II): An electrophysiological study in <i>Ascaris suum</i> . <i>Molecular and Biochemical Parasitology</i> , 2010, 171, 8-16.	1.1	13
52	Levamisole and ryanodine receptors (I): A contraction study in <i>Ascaris suum</i> . <i>Molecular and Biochemical Parasitology</i> , 2010, 171, 1-7.	1.1	18
53	Control of Nematode Parasites with Agents Acting on Neuro-Musculature Systems: Lessons for Neuropeptide Ligand Discovery. <i>Advances in Experimental Medicine and Biology</i> , 2010, 692, 138-154.	1.6	35
54	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.	4.7	72

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55	Effects of SDPNFLRF-amide (PF1) on voltage-activated currents in <i>Ascaris suum</i> muscle. <i>International Journal for Parasitology</i> , 2009, 39, 315-326.	3.1	5
56	Electrophysiological recording from parasitic nematode muscle. <i>Invertebrate Neuroscience</i> , 2008, 8, 167-175.	1.8	4
57	Effects of the muscarinic agonist, 5-methylfurmethiodide, on contraction and electrophysiology of <i>Ascaris suum</i> muscle. <i>International Journal for Parasitology</i> , 2008, 38, 945-957.	3.1	6
58	Levamisole resistance resolved at the single-channel level in <i>Caenorhabditis elegans</i> . <i>FASEB Journal</i> , 2008, 22, 3247-3254.	0.5	81
59	Mode of action of levamisole and pyrantel, anthelmintic resistance, E153 and Q57. <i>Parasitology</i> , 2007, 134, 1093-1104.	1.5	76
60	The nematode neuropeptide, AF2 (KHEYLRF-NH ₂), increases voltage-activated calcium currents in <i>Ascaris suum</i> muscle. <i>British Journal of Pharmacology</i> , 2007, 151, 888-899.	5.4	20
61	Ion-channels on parasite muscle: pharmacology and physiology. <i>Invertebrate Neuroscience</i> , 2007, 7, 209-217.	1.8	35
62	Pharmacology of N _A , L _A , and B _A subtypes of nematode nAChR resolved at the single-channel level in <i>Ascaris suum</i> . <i>FASEB Journal</i> , 2006, 20, 2606-2608.	0.5	77
63	Single-channel properties of N- and L-subtypes of acetylcholine receptor in <i>Ascaris suum</i> . <i>International Journal for Parasitology</i> , 2005, 35, 925-934.	3.1	18
64	Brief application of AF2 produces long lasting potentiation of nAChR responses in <i>Ascaris suum</i> . <i>Molecular and Biochemical Parasitology</i> , 2005, 139, 51-64.	1.1	35
65	Drug resistance and neurotransmitter receptors of nematodes: recent studies on the mode of action of levamisole. <i>Parasitology</i> , 2005, 131, S71.	1.5	54
66	Oxantel is an N-type (methyridine and nicotine) agonist not an L-type (levamisole and pyrantel) agonist: classification of cholinergic anthelmintics in <i>Ascaris</i> . <i>International Journal for Parasitology</i> , 2004, 34, 1083-1090.	3.1	54
67	Methyridine (2-[2-methoxyethyl]-pyridine) and levamisole activate different ACh receptor subtypes in nematode parasites: a new lead for levamisole-resistance. <i>British Journal of Pharmacology</i> , 2003, 140, 1068-1076.	5.4	38
68	Paraherquamide and 2-Deoxy-paraherquamide Distinguish Cholinergic Receptor Subtypes in <i>Ascaris</i> Muscle. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002, 302, 853-860.	2.5	82
69	PF4, a FMRFamide-related peptide, gates low-conductance Cl ⁻ channels in <i>Ascaris suum</i> . <i>European Journal of Pharmacology</i> , 2002, 456, 11-17.	3.5	20
70	Levamisole receptor phosphorylation: effects of kinase antagonists on membrane potential responses in <i>Ascaris suum</i> suggest that CaM kinase and tyrosine kinase regulate sensitivity to levamisole. <i>Journal of Experimental Biology</i> , 2002, 205, 3979-3988.	1.7	13
71	Levamisole receptor phosphorylation: effects of kinase antagonists on membrane potential responses in <i>Ascaris suum</i> suggest that CaM kinase and tyrosine kinase regulate sensitivity to levamisole. <i>Journal of Experimental Biology</i> , 2002, 205, 3979-88.	1.7	9
72	Changes in properties of adenosine transporters in <i>Trypanosoma evansi</i> and modes of selection of resistance to the melaminophenyl arsenical drug, Mel Cy. <i>Veterinary Parasitology</i> , 2001, 102, 193-208.	1.8	13

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73	Pyrantel resistance alters nematode nicotinic acetylcholine receptor single-channel properties. <i>European Journal of Pharmacology</i> , 2000, 394, 1-8.	3.5	33
74	Resistance to levamisole resolved at the single-channel level. <i>FASEB Journal</i> , 1999, 13, 749-760.	0.5	80
75	Anthelmintics and ion-channels: after a puncture, use a patch. <i>International Journal for Parasitology</i> , 1998, 28, 849-862.	3.1	34
76	Heterogeneous levamisole receptors: a single-channel study of nicotinic acetylcholine receptors from <i>Oesophagostomum dentatum</i> . <i>European Journal of Pharmacology</i> , 1997, 322, 249-257.	3.5	21
77	Anthelmintic Actions of the Cyclic Depsipeptide PF1022A and its Electrophysiological Effects on Muscle Cells of <i>Ascaris suum</i> . <i>Pest Management Science</i> , 1996, 48, 343-349.	0.4	22
78	Novel arylaminopyridazine-GABA receptor antagonists examined electrophysiologically in <i>Ascaris suum</i> . <i>European Journal of Pharmacology</i> , 1995, 276, 9-19.	3.5	15
79	The action of pyrantel as an agonist and an open channel blocker at acetylcholine receptors in isolated <i>Ascaris suum</i> muscle vesicles. <i>European Journal of Pharmacology</i> , 1994, 271, 273-282.	3.5	43
80	The activation of nicotinic acetylcholine receptors in the nematode parasite <i>Ascaris suum</i> by the application of levamisole to the cytoplasmic surface of muscle membrane. <i>Pest Management Science</i> , 1993, 37, 293-299.	0.4	9
81	A Study of the Morphology of the Large Reticulospinal Neurons of the Lamprey Ammocoete by Intracellular Injection of Procion Yellow. <i>Brain, Behavior and Evolution</i> , 1979, 16, 1-18.	1.7	29
82	Glycine and GABA induced conductance changes in lamprey reticulospinal neurons and their antagonism by strychnine, thebaine, bicuculline and picrotoxin. <i>Comparative Biochemistry and Physiology Part C: Comparative Pharmacology</i> , 1979, 63, 109-115.	0.2	2
83	Glycine and GABA receptors on lamprey bulbar reticulospinal neurones. <i>Comparative Biochemistry and Physiology Part C: Comparative Pharmacology</i> , 1978, 61, 37-40.	0.2	4
84	An electrophysiological investigation of the projection of the intramedullary primary afferent cells of the lamprey ammocoete. <i>Neuroscience Letters</i> , 1977, 5, 39-43.	2.1	15