

Raffi V Aroian

List of Publications by Year in descending order

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59
papers

4,300
citations

136740

32
h-index

138251

58
g-index

63
all docs

63
docs citations

63
times ranked

3584
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacillus thuringiensis crystal proteins that target nematodes. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2760-2765.	3.3	372
2	Role of Pore-Forming Toxins in Bacterial Infectious Diseases. Microbiology and Molecular Biology Reviews, 2013, 77, 173-207.	2.9	339
3	Glycolipids as Receptors for Bacillus thuringiensis Crystal Toxin. Science, 2005, 307, 922-925.	6.0	316
4	Mitogen-activated protein kinase pathways defend against bacterial pore-forming toxins. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10995-11000.	3.3	312
5	Bt Toxin Resistance from Loss of a Putative Carbohydrate-Modifying Enzyme. Science, 2001, 293, 860-864.	6.0	225
6	<i>Bacillus thuringiensis</i> (<i>Bt</i>) Toxin Susceptibility and Isolation of Resistance Mutants in the Nematode <i>Caenorhabditis elegans</i> . Genetics, 2000, 155, 1693-1699.	1.2	218
7	Activation of the Unfolded Protein Response Is Required for Defenses against Bacterial Pore-Forming Toxin In Vivo. PLoS Pathogens, 2008, 4, e1000176.	2.1	174
8	Many roads to resistance: how invertebrates adapt to Bt toxins. BioEssays, 2005, 27, 614-624.	1.2	145
9	Global Functional Analyses of Cellular Responses to Pore-Forming Toxins. PLoS Pathogens, 2011, 7, e1001314.	2.1	145
10	Resistance to a Bacterial Toxin Is Mediated by Removal of a Conserved Glycosylation Pathway Required for Toxin-Host Interactions. Journal of Biological Chemistry, 2003, 278, 45594-45602.	1.6	113
11	Pore-forming toxins and cellular non-immune defenses (CNIDs). Current Opinion in Microbiology, 2007, 10, 57-61.	2.3	113
12	RAB-5- and RAB-11-Dependent Vesicle-Trafficking Pathways Are Required for Plasma Membrane Repair after Attack by Bacterial Pore-Forming Toxin. Cell Host and Microbe, 2011, 9, 147-157.	5.1	110
13	Resistance to root-knot nematode in tomato roots expressing a nematicidal Bacillus thuringiensis crystal protein. Plant Biotechnology Journal, 2007, 5, 455-464.	4.1	97
14	Hypoxia and the Hypoxic Response Pathway Protect against Pore-Forming Toxins in <i>C. elegans</i> . PLoS Pathogens, 2009, 5, e1000689.	2.1	96
15	The New Anthelmintic Tribendimidine is an L-type (Levamisole and Pyrantel) Nicotinic Acetylcholine Receptor Agonist. PLoS Neglected Tropical Diseases, 2009, 3, e499.	1.3	91
16	The genome and transcriptome of the zoonotic hookworm <i>Ancylostoma ceylanicum</i> identify infection-specific gene families. Nature Genetics, 2015, 47, 416-422.	9.4	91
17	A purified Bacillus thuringiensis crystal protein with therapeutic activity against the hookworm parasite <i>Ancylostoma ceylanicum</i> . Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15154-15159.	3.3	85
18	An Extensive Comparison of the Effect of Anthelmintic Classes on Diverse Nematodes. PLoS ONE, 2013, 8, e70702.	1.1	77

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19	Assays for Toxicity Studies in <i>C. elegans</i> With Bt Crystal Proteins. , 2006, 351, 139-154.		71
20	Discovery of a highly synergistic anthelmintic combination that shows mutual hypersusceptibility. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5955-5960.	3.3	70
21	Expression of Cry5B protein from <i>Bacillus thuringiensis</i> in plant roots confers resistance to root-knot nematode. Biological Control, 2008, 47, 97-102.	1.4	69
22	Structure and Glycolipid Binding Properties of the Nematicidal Protein Cry5B. Biochemistry, 2012, 51, 9911-9921.	1.2	68
23	Pore worms: Using <i>Caenorhabditis elegans</i> to study how bacterial toxins interact with their target host. International Journal of Medical Microbiology, 2004, 293, 599-607.	1.5	53
24	<i>Bacillus thuringiensis</i> Cry5B Protein Is Highly Efficacious as a Single-Dose Therapy against an Intestinal Roundworm Infection in Mice. PLoS Neglected Tropical Diseases, 2010, 4, e614.	1.3	53
25	Resistance to <i>Bacillus thuringiensis</i> Toxin in <i>Caenorhabditis elegans</i> from Loss of Fucose. Journal of Biological Chemistry, 2007, 282, 3302-3311.	1.6	49
26	WWP-1 Is a Novel Modulator of the DAF-2 Insulin-Like Signaling Network Involved in Pore-Forming Toxin Cellular Defenses in <i>Caenorhabditis elegans</i> . PLoS ONE, 2010, 5, e9494.	1.1	49
27	HLH-30/TFEB-mediated autophagy functions in a cell-autonomous manner for epithelium intrinsic cellular defense against bacterial pore-forming toxin in <i>C. elegans</i> . Autophagy, 2017, 13, 371-385.	4.3	46
28	Protection and Delivery of Anthelmintic Protein Cry5B to Nematodes Using Mesoporous Silicon Particles. ACS Nano, 2015, 9, 6158-6167.	7.3	45
29	<i>Bacillus thuringiensis</i> -derived Cry5B Has Potent Anthelmintic Activity against <i>Ascaris suum</i> . PLoS Neglected Tropical Diseases, 2013, 7, e2263.	1.3	43
30	A comparative analysis of preservation techniques for the optimal molecular detection of hookworm DNA in a human fecal specimen. PLoS Neglected Tropical Diseases, 2018, 12, e0006130.	1.3	40
31	The Pore-Forming Protein Cry5B Elicits the Pathogenicity of <i>Bacillus</i> sp. against <i>Caenorhabditis elegans</i> . PLoS ONE, 2011, 6, e29122.	1.1	40
32	The pesticidal Cry6Aa toxin from <i>Bacillus thuringiensis</i> is structurally similar to HlyE-family alpha pore-forming toxins. BMC Biology, 2016, 14, 71.	1.7	37
33	Nitazoxanide: Nematicidal mode of action and drug combination studies. Molecular and Biochemical Parasitology, 2014, 193, 1-8.	0.5	35
34	Recombinant subunit vaccines for soil-transmitted helminths. Parasitology, 2017, 144, 1845-1870.	0.7	34
35	Drug Screening for Discovery of Broad-spectrum Agents for Soil-transmitted Nematodes. Scientific Reports, 2019, 9, 12347.	1.6	34
36	Mechanistic and Single-Dose In Vivo Therapeutic Studies of Cry5B Anthelmintic Action against Hookworms. PLoS Neglected Tropical Diseases, 2012, 6, e1900.	1.3	33

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37	Identification of small molecule enzyme inhibitors as broad-spectrum anthelmintics. <i>Scientific Reports</i> , 2019, 9, 9085.	1.6	25
38	Novel Role for the <i>yceGH</i> Tellurite Resistance Genes in the Pathogenesis of <i>Bacillus anthracis</i> . <i>Infection and Immunity</i> , 2014, 82, 1132-1140.	1.0	24
39	In vivo and in vitro studies of Cry5B and nicotinic acetylcholine receptor agonist anthelmintics reveal a powerful and unique combination therapy against intestinal nematode parasites. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006506.	1.3	23
40	<i>Bacillus subtilis</i> Strain Engineered for Treatment of Soil-Transmitted Helminth Diseases. <i>Applied and Environmental Microbiology</i> , 2013, 79, 5527-5532.	1.4	20
41	<i>Bacillus thuringiensis</i> Cry5B protein as a new pan-hookworm cure. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2018, 8, 287-294.	1.4	20
42	Bacterial pore-forming proteins as anthelmintics. <i>Invertebrate Neuroscience</i> , 2012, 12, 37-41.	1.8	19
43	<i>Caenorhabditis elegans</i> Carbohydrates in Bacterial Toxin Resistance. <i>Methods in Enzymology</i> , 2006, 417, 340-358.	0.4	18
44	Small Molecule Inhibitors of Metabolic Enzymes Repurposed as a New Class of Anthelmintics. <i>ACS Infectious Diseases</i> , 2018, 4, 1130-1145.	1.8	18
45	Anthelmintic Activity of Yeast Particle-Encapsulated Terpenes. <i>Molecules</i> , 2020, 25, 2958.	1.7	18
46	Neuronal Golgi and CAPS Regulate Behavioral and Immune Responses to Bacterial Pore-Forming Toxins. <i>PLoS ONE</i> , 2013, 8, e54528.	1.1	18
47	A new paraprobiotic-based treatment for control of <i>Haemonchus contortus</i> in sheep. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2020, 14, 230-236.	1.4	16
48	Resistance is non-futile: Resistance to Cry5B in the nematode <i>Caenorhabditis elegans</i> . <i>Journal of Invertebrate Pathology</i> , 2007, 95, 198-200.	1.5	11
49	Intracellular and Extracellular Expression of <i>Bacillus thuringiensis</i> Crystal Protein Cry5B in <i>Lactococcus lactis</i> for Use as an Anthelmintic. <i>Applied and Environmental Microbiology</i> , 2016, 82, 1286-1294.	1.4	11
50	A highly expressed intestinal cysteine protease of <i>Ancylostoma ceylanicum</i> protects vaccinated hamsters from hookworm infection. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007345.	1.3	11
51	Recombinant Paraprobiotics as a New Paradigm for Treating Gastrointestinal Nematode Parasites of Humans. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	1.4	10
52	Cognitive and Microbiome Impacts of Experimental <i>Ancylostoma ceylanicum</i> Hookworm Infections in Hamsters. <i>Scientific Reports</i> , 2019, 9, 7868.	1.6	9
53	Gut microbial signatures associated with moxidectin treatment efficacy of <i>Haemonchus contortus</i> in infected goats. <i>Veterinary Microbiology</i> , 2020, 242, 108607.	0.8	9
54	eIF2 β confers cellular tolerance to <i>S. aureus</i> α -toxin. <i>Frontiers in Immunology</i> , 2015, 6, 383.	2.2	8

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55	An inactivated bacterium (paraprobiotic) expressing <i>Bacillus thuringiensis</i> Cry5B as a therapeutic for <i>Ascaris</i> and <i>Parascaris</i> spp. infections in large animals. <i>One Health</i> , 2021, 12, 100241.	1.5	8
56	Yeast Particle Encapsulation of Scaffolded Terpene Compounds for Controlled Terpene Release. <i>Foods</i> , 2021, 10, 1207.	1.9	6
57	Nematode ascarosides attenuate mammalian type 2 inflammatory responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	5
58	<i>Bacillus thuringiensis</i> Cry5B is Active against <i>Strongyloides stercoralis</i> in vitro. <i>American Journal of Tropical Medicine and Hygiene</i> , 2019, 101, 1177-1182.	0.6	3
59	Immune reactivity and host modulatory roles of two novel <i>Haemonchus contortus</i> cathepsin B-like proteases. <i>Parasites and Vectors</i> , 2021, 14, 580.	1.0	2