Roger K Prichard

List of Publications by Year
in descending order

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114 papers	8,125 citations	38742 50 h-index	51608 86 g-index
116 all docs	116 docs citations	116 times ranked	4616 citing authors

#	Article	IF	Citations
1	Drug resistance in veterinary helminths. Trends in Parasitology, 2004, 20, 469-476.	3.3	650
2	Prevalence and intensity of Onchocerca volvulus infection and efficacy of ivermectin in endemic communities in Ghana: a two-phase epidemiological study. Lancet, The, 2007, 369, 2021-2029.	13.7	346
3	Ivermectin resistance in nematodes may be caused by alteration of P-glycoprotein homolog1Note: Nucleotide sequence data reported in this paper have been submitted to the GenBank data base with the accession number AF 003908.1. Molecular and Biochemical Parasitology, 1998, 91, 327-335.	1.1	277
4	Phenotypic Evidence of Emerging Ivermectin Resistance in Onchocerca volvulus. PLoS Neglected Tropical Diseases, 2011, 5, e998.	3.0	251
5	A Research Agenda for Helminth Diseases of Humans: The Problem of Helminthiases. PLoS Neglected Tropical Diseases, 2012, 6, e1582.	3.0	250
6	Moxidectin and the avermectins: Consanguinity but not identity. International Journal for Parasitology: Drugs and Drug Resistance, 2012, 2, 134-153.	3.4	222
7	Is anthelmintic resistance a concern for the control of human soil-transmitted helminths?. International Journal for Parasitology: Drugs and Drug Resistance, 2011, 1, 14-27.	3.4	211
8	Unresolved issues in anthelmintic pharmacology for helminthiases of humans. International Journal for Parasitology, 2010, 40, 1-13.	3.1	199
9	Anthelmintic resistance. Veterinary Parasitology, 1994, 54, 259-268.	1.8	188
10	A Research Agenda for Helminth Diseases of Humans: Intervention for Control and Elimination. PLoS Neglected Tropical Diseases, 2012, 6, e1549.	3.0	163
11	Reversal of P-glycoprotein-associated multidrug resistance by ivermectin. Biochemical Pharmacology, 1997, 53, 17-25.	4.4	158
12	P-glycoproteins and other multidrug resistance transporters in the pharmacology of anthelmintics: Prospects for reversing transport-dependent anthelmintic resistance. International Journal for Parasitology: Drugs and Drug Resistance, 2012, 2, 58-75.	3.4	153
13	Recent advances in candidate-gene and whole-genome approaches to the discovery of anthelmintic resistance markers and the description of drug/receptor interactions. International Journal for Parasitology: Drugs and Drug Resistance, 2014, 4, 164-184.	3.4	149
14	Haemonchus contortus: Selection at a Glutamate-Gated Chloride Channel Gene in Ivermectin- and Moxidectin-Selected Strains. Experimental Parasitology, 1998, 90, 42-48.	1.2	143
15	DETECTION OF BENZIMIDAZOLE RESISTANCEâ€“ASSOCIATED MUTATIONS IN THE FILARIAL NEMATODE WUCHERERIA BANCROFTI AND EVIDENCE FOR SELECTION BY ALBENDAZOLE AND IVERMECTIN COMBINATION TREATMENT. American Journal of Tropical Medicine and Hygiene, 2005, 73, 234-238.	1.4	140
16	Selection at a P-glycoprotein gene in ivermectin- and moxidectin-selected strains of Haemonchus contortus. Molecular and Biochemical Parasitology, 1998, 95, 193-201.	1.1	139
17	A Research Agenda for Helminth Diseases of Humans: Diagnostics for Control and Elimination Programmes. PLoS Neglected Tropical Diseases, 2012, 6, e1601.	3.0	138
18	Association between Response to Albendazole Treatment and Î²-Tubulin Genotype Frequencies in Soil-transmitted Helminths. PLoS Neglected Tropical Diseases, 2013, 7, e2247.	3.0	131

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19	Mutations in the extracellular domains of glutamate-gated chloride channel alpha3 and beta subunits from ivermectin-resistant Cooperia oncophora affect agonist sensitivity. Journal of Neurochemistry, 2004, 89, 1137-1147.	3.9	123
20	Macrocyclic lactone resistance in Dirofilaria immitis: Failure of heartworm preventives and investigation of genetic markers for resistance. Veterinary Parasitology, 2015, 210, 167-178.	1.8	122
21	Assays to Detect Î²-Tubulin Codon 200 Polymorphism in Trichuris trichiura and Ascaris lumbricoides. PLoS Neglected Tropical Diseases, 2009, 3, e397.	3.0	115
22	Study of the nematode putative GABA type-A receptor subunits: evidence for modulation by ivermectin. Journal of Neurochemistry, 2002, 83, 870-878.	3.9	114
23	Relationship between pharmacological properties and clinical efficacy of ruminant anthelmintics. Veterinary Parasitology, 1993, 49, 123-158.	1.8	108
24	Genetic analysis of a relationship between macrocyclic lactone and benzimidazole anthelmintic selection on Haemonchus contortus. Pharmacogenetics and Genomics, 2008, 18, 129-140.	1.5	106
25	Genetic Selection of Low Fertile Onchocerca volvulus by Ivermectin Treatment. PLoS Neglected Tropical Diseases, 2007, 1, e72.	3.0	97
26	Perspectives on the utility of moxidectin for the control of parasitic nematodes in the face of developing anthelmintic resistance. International Journal for Parasitology: Drugs and Drug Resistance, 2019, 10, 69-83.	3.4	91
27	Effects of the multidrug-resistance-reversing agents verapamil and CL 347,099 on the efficacy of ivermectin or moxidectin against unselected and drug-selected strains of Haemonchus contortus in jirds (Meriones unguiculatus). Parasitology Research, 1999, 85, 1007-1011.	1.6	88
28	Genome-wide analysis of ivermectin response by Onchocerca volvulus reveals that genetic drift and soft selective sweeps contribute to loss of drug sensitivity. PLoS Neglected Tropical Diseases, 2017, 11, e0005816.	3.0	87
29	ABC transporter modulation: a strategy to enhance the activity of macrocyclic lactone anthelmintics. Trends in Parasitology, 2008, 24, 293-298.	3.3	85
30	A Research Agenda for Helminth Diseases of Humans: Modelling for Control and Elimination. PLoS Neglected Tropical Diseases, 2012, 6, e1548.	3.0	85
31	Reaching the London Declaration on Neglected Tropical Diseases Goals for Onchocerciasis: An Economic Evaluation of Increasing the Frequency of Ivermectin Treatment in Africa. Clinical Infectious Diseases, 2014, 59, 923-932.	5.8	82
32	Macrocyclic lactone resistance in Dirofilaria immitis. Veterinary Parasitology, 2011, 181, 388-392.	1.8	80
33	Three Î²-tubulin cDNAs from the parasitic nematode Haemonchus contortus. Molecular and Biochemical Parasitology, 1992, 50, 295-306.	1.1	77
34	Identifying sub-optimal responses to ivermectin in the treatment of River Blindness. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16716-16721.	7.1	77
35	A Research Agenda for Helminth Diseases of Humans: Towards Control and Elimination. PLoS Neglected Tropical Diseases, 2012, 6, e1547.	3.0	76
36	P-glycoprotein-like protein, a possible genetic marker for ivermectin resistance selection in Onchocerca volvulus. Molecular and Biochemical Parasitology, 2008, 158, 101-111.	1.1	75

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37	Correlation between loss of efficacy of macrocyclic lactone heartworm anthelmintics and P-glycoprotein genotype. Veterinary Parasitology, 2011, 176, 374-381.	1.8	75
38	Establishment of macrocyclic lactone resistant Dirofilaria immitis isolates in experimentally infected laboratory dogs. Parasites and Vectors, 2014, 7, 494.	2.5	75
39	Relationship between increased albendazole systemic exposure and changes in single nucleotide polymorphisms on the Î²-tubulin isotype 1 encoding gene in Haemonchus contortus. Veterinary Parasitology, 2012, 186, 344-349.	1.8	72
40	Inhibition of P-glycoprotein enhances sensitivity of Caenorhabditis elegans to ivermectin. Veterinary Parasitology, 2013, 191, 264-275.	1.8	71
41	P-glycoprotein selection in strains of Haemonchus contortus resistant to benzimidazoles. Veterinary Parasitology, 2008, 152, 101-107.	1.8	65
42	Molecular and Biological Diagnostic Tests for Monitoring Benzimidazole Resistance in Human Soil-Transmitted Helminths. American Journal of Tropical Medicine and Hygiene, 2013, 88, 1052-1061.	1.4	65
43	Evidence for Macrocyclic Lactone Anthelmintic Resistance in Dirofilaria immitis. Topics in Companion Animal Medicine, 2011, 26, 186-192.	0.9	64
44	Relative Neurotoxicity of Ivermectin and Moxidectin in Mdr1ab (â^'/â^') Mice and Effects on Mammalian GABA(A) Channel Activity. PLoS Neglected Tropical Diseases, 2012, 6, e1883.	3.0	61
45	Markers for benzimidazole resistance in human parasitic nematodes?. Parasitology, 2007, 134, 1087-1092.	1.5	58
46	A comparison of the effects of ivermectin and moxidectin on the nematode Caenorhabditis elegans. Veterinary Parasitology, 2009, 165, 96-108.	1.8	57
47	Selection at a Î³-aminobutyric acid receptor gene in Haemonchus contortus resistant to avermectins/milbemycins. Molecular and Biochemical Parasitology, 2003, 131, 137-145.	1.1	54
48	Identification and stage-specific expression of two putative P-glycoprotein coding genes in Onchocerca volvulus. Molecular and Biochemical Parasitology, 1999, 102, 273-281.	1.1	53
49	A glutamate-gated chloride channel subunit from Haemonchus contortus:. Biochemical Pharmacology, 2002, 63, 1061-1068.	4.4	52
50	Genomic organization and effects of ivermectin selection on Onchocerca volvulus P-glycoprotein. Molecular and Biochemical Parasitology, 2005, 143, 58-66.	1.1	52
51	Analysis of the mdr-1 Gene in Patients Co-Infected with Onchocerca volvulus and Loa loa Who Experienced a Post-Ivermectin Serious Adverse Event. American Journal of Tropical Medicine and Hygiene, 2010, 83, 28-32.	1.4	52
52	Onchocerciasis Control: Vision for the Future from a Ghanian perspective. Parasites and Vectors, 2009, 2, 7.	2.5	50
53	Uncertainty Surrounding Projections of the Long-Term Impact of Ivermectin Treatment on Human Onchocerciasis. PLoS Neglected Tropical Diseases, 2013, 7, e2169.	3.0	50
54	Reproductive Status of Onchocerca volvulus after Ivermectin Treatment in an Ivermectin-NaÃ¯ve and a Frequently Treated Population from Cameroon. PLoS Neglected Tropical Diseases, 2014, 8, e2824.	3.0	50

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55	Human soil-transmitted helminths. Current Opinion in Infectious Diseases, 2012, 25, 703-708.	3.1	49
56	Benzimidazoles, potent anti-mitotic drugs: Substrates for the P-glycoprotein transporter in multidrug-resistant cells. Biochemical Pharmacology, 1994, 48, 2215-2222.	4.4	47
57	A dopamine-gated ion channel (HcGGR3*) from Haemonchus contortus is expressed in the cervical papillae and is associated with macrocyclic lactone resistance. Molecular and Biochemical Parasitology, 2009, 166, 54-61.	1.1	47
58	Ivermectin resistance and overview of the Consortium for Anthelmintic Resistance SNPs. Expert Opinion on Drug Discovery, 2007, 2, S41-S52.	5.0	46
59	A dyf-7 haplotype causes sensory neuron defects and is associated with macrocyclic lactone resistance worldwide in the nematode parasite Haemonchus contortus. International Journal for Parasitology, 2014, 44, 1063-1071.	3.1	45
60	Challenges and opportunities for the adoption of molecular diagnostics for anthelmintic resistance. International Journal for Parasitology: Drugs and Drug Resistance, 2020, 14, 264-273.	3.4	44
61	Dynamics of Onchocerca volvulus Microfilarial Densities after Ivermectin Treatment in an Ivermectin-naÃ¯ve and a Multiply Treated Population from Cameroon. PLoS Neglected Tropical Diseases, 2013, 7, e2084.	3.0	43
62	Clinical validation of molecular markers of macrocyclic lactone resistance in Dirofilaria immitis. International Journal for Parasitology: Drugs and Drug Resistance, 2018, 8, 596-606.	3.4	41
63	Genetic polymorphism in Dirofilaria immitis. Veterinary Parasitology, 2011, 176, 368-373.	1.8	39
64	Cloning, Sequencing, and Developmental Expression Levels of a Novel Glutamate-Gated Chloride Channel Homologue in the Parasitic NematodeHaemonchus contortus. Biochemical and Biophysical Research Communications, 1999, 254, 529-534.	2.1	38
65	Characterization of a half-size ATP-binding cassette transporter gene which may be a useful marker for ivermectin selection in Onchocerca volvulus. Molecular and Biochemical Parasitology, 2006, 145, 94-100.	1.1	38
66	Haemonchus contortus P-glycoprotein-2: in situ localisation and characterisation of macrocyclic lactone transport. International Journal for Parasitology, 2015, 45, 85-93.	3.1	37
67	Comparison of four DNA extraction and three preservation protocols for the molecular detection and quantification of soil-transmitted helminths in stool. PLoS Neglected Tropical Diseases, 2019, 13, e0007778.	3.0	37
68	Resistance to the macrocyclic lactone moxidectin is mediated in part by membrane transporter P-glycoproteins: Implications for control of drug resistant parasitic nematodes. International Journal for Parasitology: Drugs and Drug Resistance, 2014, 4, 143-151.	3.4	36
69	Efficiency of a genetic test to detect benzimidazole resistant Haemonchus contortus nematodes in sheep farms in Quebec, Canada. Parasitology International, 2013, 62, 464-470.	1.3	35
70	The role of molecular biology in veterinary parasitology. Veterinary Parasitology, 2001, 98, 169-194.	1.8	33
71	LOCALIZATION OF P-GLYCOPROTEIN mRNA IN THE TISSUES OF HAEMONCHUS CONTORTUS ADULT WORMS AND ITS RELATIVE ABUNDANCE IN DRUG-SELECTED AND SUSCEPTIBLE STRAINS. Journal of Parasitology, 2002, 88, 612-620.	0.7	33
72	Genetic profiles of ten Dirofilaria immitis isolates susceptible or resistant to macrocyclic lactone heartworm preventives. Parasites and Vectors, 2017, 10, 504.	2.5	33

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73	Characterisation of P-glycoprotein-9.1 in Haemonchus contortus. Parasites and Vectors, 2016, 9, 52.	2.5	32
74	Fresh hope to can the worms. Nature, 2008, 452, 157-158.	27.8	31
75	An Analysis of Genetic Diversity and Inbreeding in Wuchereria bancrofti: Implications for the Spread and Detection of Drug Resistance. PLoS Neglected Tropical Diseases, 2008, 2, e211.	3.0	31
76	Individual Expression of Recombinant Î±- and Î²-Tubulin from Haemonchus contortus: Polymerization and Drug Effects. Protein Expression and Purification, 2001, 21, 30-39.	1.3	30
77	Genotypic analysis of Î²-tubulin in Onchocerca volvulus from communities and individuals showing poor parasitological response to ivermectin treatment. International Journal for Parasitology: Drugs and Drug Resistance, 2012, 2, 20-28.	3.4	30
78	The role of several ABC transporter genes in ivermectin resistance in Caenorhabditis elegans. Veterinary Parasitology, 2012, 190, 519-529.	1.8	30
79	Novel assay for the detection and monitoring of levamisole resistance in Haemonchus contortus. International Journal for Parasitology, 2014, 44, 235-241.	3.1	30
80	Isothermal Diagnostic Assays for Monitoring Single Nucleotide Polymorphisms in Necator americanus Associated with Benzimidazole Drug Resistance. PLoS Neglected Tropical Diseases, 2016, 10, e0005113.	3.0	30
81	Comprehensive evaluation of stool-based diagnostic methods and benzimidazole resistance markers to assess drug efficacy and detect the emergence of anthelmintic resistance: A Starworms study protocol. PLoS Neglected Tropical Diseases, 2018, 12, e0006912.	3.0	30
82	Development of emodepside as a possible adulticidal treatment for human onchocerciasisâ€"The fruit of a successful industrialâ€"academic collaboration. PLoS Pathogens, 2021, 17, e1009682.	4.7	29
83	Single nucleotide polymorphisms in Î²-tubulin selected in Onchocerca volvulus following repeated ivermectin treatment: Possible indication of resistance selection. Molecular and Biochemical Parasitology, 2012, 185, 10-18.	1.1	26
84	In silico analysis of the binding of anthelmintics to Caenorhabditis elegans P-glycoprotein 1. International Journal for Parasitology: Drugs and Drug Resistance, 2016, 6, 299-313.	3.4	25
85	Methimazole increases the plasma concentrations of the albendazole metabolites of netobimin in sheep. Biopharmaceutics and Drug Disposition, 1992, 13, 95-103.	1.9	24
86	Characterization of Haemonchus contortus P-glycoprotein-16 and its interaction with the macrocyclic lactone anthelmintics. Molecular and Biochemical Parasitology, 2015, 204, 11-15.	1.1	24
87	Rapid Genotyping of Î²-tubulin Polymorphisms in Trichuris trichiura and Ascaris lumbricoides. PLoS Neglected Tropical Diseases, 2017, 11, e0005205.	3.0	24
88	Macrocyclic lactone resistance in Dirofilaria immitis: risks for prevention of heartworm disease. International Journal for Parasitology, 2021, 51, 1121-1132.	3.1	24
89	Ivermectin exhibits potent anti-mitotic activity. Veterinary Parasitology, 2016, 226, 1-4.	1.8	22
90	Isothermal diagnostic assays for the detection of soil-transmitted helminths based on the SmartAmp2 method. Parasites and Vectors, 2017, 10, 496.	2.5	21

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91	The optimal timing of post-treatment sampling for the assessment of anthelminthic drug efficacy against Ascaris infections in humans. International Journal for Parasitology: Drugs and Drug Resistance, 2018, 8, 67-69.	3.4	21
92	Where next with Loa loa encephalopathy? Data are badly needed. Trends in Parasitology, 2007, 23, 237-238.	3.3	20
93	Interaction of macrocyclic lactones with a Dirofilaria immitis P-glycoprotein. International Journal for Parasitology, 2016, 46, 631-640.	3.1	20
94	A Research Agenda for Helminth Diseases of Humans: Health Research and Capacity Building in Disease-Endemic Countries for Helminthiases Control. PLoS Neglected Tropical Diseases, 2012, 6, e1602.	3.0	19
95	Ivermectin binds to Haemonchus contortus tubulins and promotes stability of microtubules. International Journal for Parasitology, 2015, 45, 647-654.	3.1	18
96	Structural model, functional modulation by ivermectin and tissue localization of Haemonchus contortus P-glycoprotein-13. International Journal for Parasitology: Drugs and Drug Resistance, 2018, 8, 145-157.	3.4	17
97	Piloting a surveillance system to monitor the global patterns of drug efficacy and the emergence of anthelmintic resistance in soil-transmitted helminth control programs: a Starworms study protocol. Gates Open Research, 2020, 4, 28.	1.1	17
98	ABC-B transporter genes in Dirofilaria immitis. International Journal for Parasitology: Drugs and Drug Resistance, 2016, 6, 116-124.	3.4	16
99	Genomic organization of an avermectin receptor subunit from Haemonchus contortus and expression of its putative promoter region in Caenorhabditis elegans. Molecular and Biochemical Parasitology, 2004, 134, 267-274.	1.1	14
100	Macrocyclic lactones and their relationship to the SNPs related to benzimidazole resistance. Molecular and Biochemical Parasitology, 2015, 201, 128-134.	1.1	13
101	Concern for Dirofilaria immitis and Macrocyclic Lactone Loss of Efficacy: Current Situation in the USA and Europe, and Future Scenarios. Pathogens, 2021, 10, 1323.	2.8	11
102	The development of the dog heartworm is highly sensitive to sterols which activate the orthologue of the nuclear receptor DAF-12. Scientific Reports, 2020, 10, 11207.	3.3	10
103	Dirofilaria immitis JYD-34 isolate: whole genome analysis. Parasites and Vectors, 2017, 10, 494.	2.5	9
104	Polymorphism in ion channel genes of Dirofilaria immitis : Relevant knowledge for future anthelmintic drug design. International Journal for Parasitology: Drugs and Drug Resistance, 2016, 6, 343-355.	3.4	5
105	Polymorphism in ABC transporter genes of Dirofilaria immitis. International Journal for Parasitology: Drugs and Drug Resistance, 2017, 7, 227-235.	3.4	5
106	Developmental regulation of Dirofilaria immitis microfilariae and evaluation of ecdysone signaling pathway transcript level using droplet digital PCR. Parasites and Vectors, 2020, 13, 614.	2.5	5
107	Haemonchus contortus microtubules are cold resistant. Molecular and Biochemical Parasitology, 2014, 193, 20-22.	1.1	4
108	Drug Resistance in Nematodes. , 2009, , 621-628.		3

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109	G-protein-coupled receptor genes of Dirofilaria immitis. Molecular and Biochemical Parasitology, 2018, 222, 6-13.	1.1	3
110	Development of rapid in vitro colorimetric enzymatic activity assay to differentiate macrocyclic lactone susceptible and resistant Dirofilaria immitis isolates. Veterinary Parasitology, 2022, 304, 109696.	1.8	3
111	Efficacy of ivermectin against Onchocerca volvulus in Ghana â€“ Authors' reply. Lancet, The, 2007, 370, 1124-1125.	13.7	2
112	Macrocyclic lactone resistance in Dirofilaria immitis by Bourguinat et al.. Veterinary Parasitology, 2011, 182, 380-381.	1.8	0
113	Model of Success: World Association for the Advancement of Veterinary Parasitology African Foundation (1997â€“2019). Journal of the South African Veterinary Association, 2020, 91, e1-e6.	0.6	0
114	Drug Resistance in Nematodes. , 2017, , 689-704.		0