

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
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116
all docs

116
docs citations

116
times ranked

4616
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of rapid in vitro colorimetric enzymatic activity assay to differentiate macrocyclic lactone susceptible and resistant <i>Dirofilaria immitis</i> isolates. <i>Veterinary Parasitology</i> , 2022, 304, 109696.	1.8	3
2	Development of emodepside as a possible adulticidal treatment for human onchocerciasis—The fruit of a successful industrial—academic collaboration. <i>PLoS Pathogens</i> , 2021, 17, e1009682.	4.7	29
3	Concern for <i>Dirofilaria immitis</i> and Macrocyclic Lactone Loss of Efficacy: Current Situation in the USA and Europe, and Future Scenarios. <i>Pathogens</i> , 2021, 10, 1323.	2.8	11
4	Macrocyclic lactone resistance in <i>Dirofilaria immitis</i> : risks for prevention of heartworm disease. <i>International Journal for Parasitology</i> , 2021, 51, 1121-1132.	3.1	24
5	The development of the dog heartworm is highly sensitive to sterols which activate the orthologue of the nuclear receptor DAF-12. <i>Scientific Reports</i> , 2020, 10, 11207.	3.3	10
6	Model of Success: World Association for the Advancement of Veterinary Parasitology African Foundation (1997—2019). <i>Journal of the South African Veterinary Association</i> , 2020, 91, e1-e6.	0.6	0
7	Developmental regulation of <i>Dirofilaria immitis</i> microfilariae and evaluation of ecdysone signaling pathway transcript level using droplet digital PCR. <i>Parasites and Vectors</i> , 2020, 13, 614.	2.5	5
8	Challenges and opportunities for the adoption of molecular diagnostics for anthelmintic resistance. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2020, 14, 264-273.	3.4	44
9	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. <i>Gates Open Research</i> , 2020, 4, 28.	1.1	17
10	Comparison of four DNA extraction and three preservation protocols for the molecular detection and quantification of soil-transmitted helminths in stool. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007778.	3.0	37
11	Perspectives on the utility of moxidectin for the control of parasitic nematodes in the face of developing anthelmintic resistance. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2019, 10, 69-83.	3.4	91
12	G-protein-coupled receptor genes of <i>Dirofilaria immitis</i> . <i>Molecular and Biochemical Parasitology</i> , 2018, 222, 6-13.	1.1	3
13	The optimal timing of post-treatment sampling for the assessment of anthelmintic drug efficacy against <i>Ascaris</i> infections in humans. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2018, 8, 67-69.	3.4	21
14	Structural model, functional modulation by ivermectin and tissue localization of <i>Haemonchus contortus</i> P-glycoprotein-13. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2018, 8, 145-157.	3.4	17
15	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. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006912.	3.0	30
16	Clinical validation of molecular markers of macrocyclic lactone resistance in <i>Dirofilaria immitis</i> . <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2018, 8, 596-606.	3.4	41
17	Polymorphism in ABC transporter genes of <i>Dirofilaria immitis</i> . <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2017, 7, 227-235.	3.4	5
18	Genome-wide analysis of ivermectin response by <i>Onchocerca volvulus</i> reveals that genetic drift and soft selective sweeps contribute to loss of drug sensitivity. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005816.	3.0	87

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19	Isothermal diagnostic assays for the detection of soil-transmitted helminths based on the SmartAmp2 method. <i>Parasites and Vectors</i> , 2017, 10, 496.	2.5	21
20	Genetic profiles of ten <i>Dirofilaria immitis</i> isolates susceptible or resistant to macrocyclic lactone heartworm preventives. <i>Parasites and Vectors</i> , 2017, 10, 504.	2.5	33
21	<i>Dirofilaria immitis</i> JYD-34 isolate: whole genome analysis. <i>Parasites and Vectors</i> , 2017, 10, 494.	2.5	9
22	Rapid Genotyping of β -tubulin Polymorphisms in <i>Trichuris trichiura</i> and <i>Ascaris lumbricoides</i> . <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005205.	3.0	24
23	Drug Resistance in Nematodes. , 2017, , 689-704.		0
24	Isothermal Diagnostic Assays for Monitoring Single Nucleotide Polymorphisms in <i>Necator americanus</i> Associated with Benzimidazole Drug Resistance. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0005113.	3.0	30
25	Interaction of macrocyclic lactones with a <i>Dirofilaria immitis</i> P-glycoprotein. <i>International Journal for Parasitology</i> , 2016, 46, 631-640.	3.1	20
26	In silico analysis of the binding of anthelmintics to <i>Caenorhabditis elegans</i> P-glycoprotein 1. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2016, 6, 299-313.	3.4	25
27	Polymorphism in ion channel genes of <i>Dirofilaria immitis</i> : Relevant knowledge for future anthelmintic drug design. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2016, 6, 343-355.	3.4	5
28	ABC-B transporter genes in <i>Dirofilaria immitis</i> . <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2016, 6, 116-124.	3.4	16
29	Characterisation of P-glycoprotein-9.1 in <i>Haemonchus contortus</i> . <i>Parasites and Vectors</i> , 2016, 9, 52.	2.5	32
30	Ivermectin exhibits potent anti-mitotic activity. <i>Veterinary Parasitology</i> , 2016, 226, 1-4.	1.8	22
31	Ivermectin binds to <i>Haemonchus contortus</i> tubulins and promotes stability of microtubules. <i>International Journal for Parasitology</i> , 2015, 45, 647-654.	3.1	18
32	Characterization of <i>Haemonchus contortus</i> P-glycoprotein-16 and its interaction with the macrocyclic lactone anthelmintics. <i>Molecular and Biochemical Parasitology</i> , 2015, 204, 11-15.	1.1	24
33	Macrocyclic lactone resistance in <i>Dirofilaria immitis</i> : Failure of heartworm preventives and investigation of genetic markers for resistance. <i>Veterinary Parasitology</i> , 2015, 210, 167-178.	1.8	122
34	Macrocyclic lactones and their relationship to the SNPs related to benzimidazole resistance. <i>Molecular and Biochemical Parasitology</i> , 2015, 201, 128-134.	1.1	13
35	<i>Haemonchus contortus</i> P-glycoprotein-2: in situ localisation and characterisation of macrocyclic lactone transport. <i>International Journal for Parasitology</i> , 2015, 45, 85-93.	3.1	37
36	Establishment of macrocyclic lactone resistant <i>Dirofilaria immitis</i> isolates in experimentally infected laboratory dogs. <i>Parasites and Vectors</i> , 2014, 7, 494.	2.5	75

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37	Reproductive Status of <i>Onchocerca volvulus</i> after Ivermectin Treatment in an Ivermectin-Na ⁺ ve and a Frequently Treated Population from Cameroon. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e2824.	3.0	50
38	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
39	A dyf-7 haplotype causes sensory neuron defects and is associated with macrocyclic lactone resistance worldwide in the nematode parasite <i>Haemonchus contortus</i> . <i>International Journal for Parasitology</i> , 2014, 44, 1063-1071.	3.1	45
40	Reaching the London Declaration on Neglected Tropical Diseases Goals for Onchocerciasis: An Economic Evaluation of Increasing the Frequency of Ivermectin Treatment in Africa. <i>Clinical Infectious Diseases</i> , 2014, 59, 923-932.	5.8	82
41	<i>Haemonchus contortus</i> microtubules are cold resistant. <i>Molecular and Biochemical Parasitology</i> , 2014, 193, 20-22.	1.1	4
42	Novel assay for the detection and monitoring of levamisole resistance in <i>Haemonchus contortus</i> . <i>International Journal for Parasitology</i> , 2014, 44, 235-241.	3.1	30
43	Resistance to the macrocyclic lactone moxidectin is mediated in part by membrane transporter P-glycoproteins: Implications for control of drug resistant parasitic nematodes. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2014, 4, 143-151.	3.4	36
44	Efficiency of a genetic test to detect benzimidazole resistant <i>Haemonchus contortus</i> nematodes in sheep farms in Quebec, Canada. <i>Parasitology International</i> , 2013, 62, 464-470.	1.3	35
45	Inhibition of P-glycoprotein enhances sensitivity of <i>Caenorhabditis elegans</i> to ivermectin. <i>Veterinary Parasitology</i> , 2013, 191, 264-275.	1.8	71
46	Uncertainty Surrounding Projections of the Long-Term Impact of Ivermectin Treatment on Human Onchocerciasis. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2169.	3.0	50
47	Association between Response to Albendazole Treatment and β -Tubulin Genotype Frequencies in Soil-transmitted Helminths. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2247.	3.0	131
48	Dynamics of <i>Onchocerca volvulus</i> Microfilarial Densities after Ivermectin Treatment in an Ivermectin-na ⁺ ve and a Multiply Treated Population from Cameroon. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2084.	3.0	43
49	Molecular and Biological Diagnostic Tests for Monitoring Benzimidazole Resistance in Human Soil-Transmitted Helminths. <i>American Journal of Tropical Medicine and Hygiene</i> , 2013, 88, 1052-1061.	1.4	65
50	A Research Agenda for Helminth Diseases of Humans: Towards Control and Elimination. <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1547.	3.0	76
51	A Research Agenda for Helminth Diseases of Humans: Intervention for Control and Elimination. <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1549.	3.0	163
52	A Research Agenda for Helminth Diseases of Humans: Health Research and Capacity Building in Disease-Endemic Countries for Helminthiasis Control. <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1602.	3.0	19
53	A Research Agenda for Helminth Diseases of Humans: Modelling for Control and Elimination. <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1548.	3.0	85
54	Relative Neurotoxicity of Ivermectin and Moxidectin in <i>Mdr1ab</i> (β / β) Mice and Effects on Mammalian GABA(A) Channel Activity. <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1883.	3.0	61

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55	A Research Agenda for Helminth Diseases of Humans: The Problem of Helminthiases. PLoS Neglected Tropical Diseases, 2012, 6, e1582.	3.0	250
56	A Research Agenda for Helminth Diseases of Humans: Diagnostics for Control and Elimination Programmes. PLoS Neglected Tropical Diseases, 2012, 6, e1601.	3.0	138
57	Human soil-transmitted helminths. Current Opinion in Infectious Diseases, 2012, 25, 703-708.	3.1	49
58	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
59	Genotypic analysis of β -tubulin in <i>Onchocerca volvulus</i> 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
60	Moxidectin and the avermectins: Consanguinity but not identity. International Journal for Parasitology: Drugs and Drug Resistance, 2012, 2, 134-153.	3.4	222
61	The role of several ABC transporter genes in ivermectin resistance in <i>Caenorhabditis elegans</i> . Veterinary Parasitology, 2012, 190, 519-529.	1.8	30
62	Single nucleotide polymorphisms in β -tubulin selected in <i>Onchocerca volvulus</i> following repeated ivermectin treatment: Possible indication of resistance selection. Molecular and Biochemical Parasitology, 2012, 185, 10-18.	1.1	26
63	Relationship between increased albendazole systemic exposure and changes in single nucleotide polymorphisms on the β -tubulin isotype 1 encoding gene in <i>Haemonchus contortus</i> . Veterinary Parasitology, 2012, 186, 344-349.	1.8	72
64	Evidence for Macrocyclic Lactone Anthelmintic Resistance in <i>Dirofilaria immitis</i> . Topics in Companion Animal Medicine, 2011, 26, 186-192.	0.9	64
65	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
66	Macrocyclic lactone resistance in <i>Dirofilaria immitis</i> . Veterinary Parasitology, 2011, 181, 388-392.	1.8	80
67	Macrocyclic lactone resistance in <i>Dirofilaria immitis</i> by Bourguinat et al.. Veterinary Parasitology, 2011, 182, 380-381.	1.8	0
68	Genetic polymorphism in <i>Dirofilaria immitis</i> . Veterinary Parasitology, 2011, 176, 368-373.	1.8	39
69	Correlation between loss of efficacy of macrocyclic lactone heartworm anthelmintics and P-glycoprotein genotype. Veterinary Parasitology, 2011, 176, 374-381.	1.8	75
70	Phenotypic Evidence of Emerging Ivermectin Resistance in <i>Onchocerca volvulus</i> . PLoS Neglected Tropical Diseases, 2011, 5, e998.	3.0	251
71	Unresolved issues in anthelmintic pharmacology for helminthiases of humans. International Journal for Parasitology, 2010, 40, 1-13.	3.1	199
72	Analysis of the <i>mdr-1</i> Gene in Patients Co-Infected with <i>Onchocerca volvulus</i> and <i>Loa loa</i> Who Experienced a Post-Ivermectin Serious Adverse Event. American Journal of Tropical Medicine and Hygiene, 2010, 83, 28-32.	1.4	52

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73	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
74	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
75	A comparison of the effects of ivermectin and moxidectin on the nematode Caenorhabditis elegans. Veterinary Parasitology, 2009, 165, 96-108.	1.8	57
76	Drug Resistance in Nematodes. , 2009, , 621-628.		3
77	Onchocerciasis Control: Vision for the Future from a Ghanaian perspective. Parasites and Vectors, 2009, 2, 7.	2.5	50
78	Assays to Detect β -Tubulin Codon 200 Polymorphism in Trichuris trichiura and Ascaris lumbricoides. PLoS Neglected Tropical Diseases, 2009, 3, e397.	3.0	115
79	P-glycoprotein selection in strains of Haemonchus contortus resistant to benzimidazoles. Veterinary Parasitology, 2008, 152, 101-107.	1.8	65
80	Fresh hope to can the worms. Nature, 2008, 452, 157-158.	27.8	31
81	ABC transporter modulation: a strategy to enhance the activity of macrocyclic lactone anthelmintics. Trends in Parasitology, 2008, 24, 293-298.	3.3	85
82	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
83	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
84	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
85	Markers for benzimidazole resistance in human parasitic nematodes?. Parasitology, 2007, 134, 1087-1092.	1.5	58
86	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
87	Efficacy of ivermectin against Onchocerca volvulus in Ghana – Authors' reply. Lancet, The, 2007, 370, 1124-1125.	13.7	2
88	Ivermectin resistance and overview of the Consortium for Anthelmintic Resistance SNPs. Expert Opinion on Drug Discovery, 2007, 2, S41-S52.	5.0	46
89	Where next with Loa loa encephalopathy? Data are badly needed. Trends in Parasitology, 2007, 23, 237-238.	3.3	20
90	Genetic Selection of Low Fertile Onchocerca volvulus by Ivermectin Treatment. PLoS Neglected Tropical Diseases, 2007, 1, e72.	3.0	97

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91	Characterization of a half-size ATP-binding cassette transporter gene which may be a useful marker for ivermectin selection in <i>Onchocerca volvulus</i> . <i>Molecular and Biochemical Parasitology</i> , 2006, 145, 94-100.	1.1	38
92	Genomic organization and effects of ivermectin selection on <i>Onchocerca volvulus</i> P-glycoprotein. <i>Molecular and Biochemical Parasitology</i> , 2005, 143, 58-66.	1.1	52
93	DETECTION OF BENZIMIDAZOLE RESISTANCE-ASSOCIATED MUTATIONS IN THE FILARIAL NEMATODE <i>WUCHERERIA BANCROFTI</i> AND EVIDENCE FOR SELECTION BY ALBENDAZOLE AND IVERMECTIN COMBINATION TREATMENT. <i>American Journal of Tropical Medicine and Hygiene</i> , 2005, 73, 234-238.	1.4	140
94	Mutations in the extracellular domains of glutamate-gated chloride channel alpha3 and beta subunits from ivermectin-resistant <i>Cooperia oncophora</i> affect agonist sensitivity. <i>Journal of Neurochemistry</i> , 2004, 89, 1137-1147.	3.9	123
95	Genomic organization of an avermectin receptor subunit from <i>Haemonchus contortus</i> and expression of its putative promoter region in <i>Caenorhabditis elegans</i> . <i>Molecular and Biochemical Parasitology</i> , 2004, 134, 267-274.	1.1	14
96	Drug resistance in veterinary helminths. <i>Trends in Parasitology</i> , 2004, 20, 469-476.	3.3	650
97	Selection at a $\hat{\gamma}$ -aminobutyric acid receptor gene in <i>Haemonchus contortus</i> resistant to avermectins/milbemycins. <i>Molecular and Biochemical Parasitology</i> , 2003, 131, 137-145.	1.1	54
98	LOCALIZATION OF P-GLYCOPROTEIN mRNA IN THE TISSUES OF HAEMONCHUS CONTORTUS ADULT WORMS AND ITS RELATIVE ABUNDANCE IN DRUG-SELECTED AND SUSCEPTIBLE STRAINS. <i>Journal of Parasitology</i> , 2002, 88, 612-620.	0.7	33
99	A glutamate-gated chloride channel subunit from <i>Haemonchus contortus</i> :. <i>Biochemical Pharmacology</i> , 2002, 63, 1061-1068.	4.4	52
100	Study of the nematode putative GABA type-A receptor subunits: evidence for modulation by ivermectin. <i>Journal of Neurochemistry</i> , 2002, 83, 870-878.	3.9	114
101	Individual Expression of Recombinant $\hat{\gamma}$ - and $\hat{\beta}$ -Tubulin from <i>Haemonchus contortus</i> : Polymerization and Drug Effects. <i>Protein Expression and Purification</i> , 2001, 21, 30-39.	1.3	30
102	The role of molecular biology in veterinary parasitology. <i>Veterinary Parasitology</i> , 2001, 98, 169-194.	1.8	33
103	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 <i>Haemonchus contortus</i> in jirds (<i>Meriones unguiculatus</i>). <i>Parasitology Research</i> , 1999, 85, 1007-1011.	1.6	88
104	Identification and stage-specific expression of two putative P-glycoprotein coding genes in <i>Onchocerca volvulus</i> . <i>Molecular and Biochemical Parasitology</i> , 1999, 102, 273-281.	1.1	53
105	Cloning, Sequencing, and Developmental Expression Levels of a Novel Glutamate-Gated Chloride Channel Homologue in the Parasitic Nematode <i>Haemonchus contortus</i> . <i>Biochemical and Biophysical Research Communications</i> , 1999, 254, 529-534.	2.1	38
106	<i>Haemonchus contortus</i> : Selection at a Glutamate-Gated Chloride Channel Gene in Ivermectin- and Moxidectin-Selected Strains. <i>Experimental Parasitology</i> , 1998, 90, 42-48.	1.2	143
107	Ivermectin resistance in nematodes may be caused by alteration of P-glycoprotein homolog1 Note: Nucleotide sequence data reported in this paper have been submitted to the GenBank data base with the accession number AF 003908.1. <i>Molecular and Biochemical Parasitology</i> , 1998, 91, 327-335.	1.1	277
108	Selection at a P-glycoprotein gene in ivermectin- and moxidectin-selected strains of <i>Haemonchus contortus</i> . <i>Molecular and Biochemical Parasitology</i> , 1998, 95, 193-201.	1.1	139

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109	Reversal of P-glycoprotein-associated multidrug resistance by ivermectin. <i>Biochemical Pharmacology</i> , 1997, 53, 17-25.	4.4	158
110	Anthelmintic resistance. <i>Veterinary Parasitology</i> , 1994, 54, 259-268.	1.8	188
111	Benzimidazoles, potent anti-mitotic drugs: Substrates for the P-glycoprotein transporter in multidrug-resistant cells. <i>Biochemical Pharmacology</i> , 1994, 48, 2215-2222.	4.4	47
112	Relationship between pharmacological properties and clinical efficacy of ruminant anthelmintics. <i>Veterinary Parasitology</i> , 1993, 49, 123-158.	1.8	108
113	Three β -tubulin cDNAs from the parasitic nematode <i>Haemonchus contortus</i> . <i>Molecular and Biochemical Parasitology</i> , 1992, 50, 295-306.	1.1	77
114	Methimazole increases the plasma concentrations of the albendazole metabolites of netobimin in sheep. <i>Biopharmaceutics and Drug Disposition</i> , 1992, 13, 95-103.	1.9	24