Conor R Caffrey

List of Publications by Citations

118 papers	2,604 citations	27 h-index	49 g-index
124 ext. papers	3,189 ext. citations	5.2 avg, IF	4.92 L-index

#	Paper	IF	Citations
118	Chemotherapy of schistosomiasis: present and future. *Current Opinion in Chemical Biology*, **2007**, 11, 433-9	9.7	226
117	Schistosomiasis mansoni: novel chemotherapy using a cysteine protease inhibitor. *PLoS Medicine*, **2007**, 4, e14	11.6	199
116	A multienzyme network functions in intestinal protein digestion by a platyhelminth parasite. *Journal of Biological Chemistry*, **2006**, 281, 39316-29	5.4	180
115	Open Source Drug Discovery with the Malaria Box Compound Collection for Neglected Diseases and Beyond. *PLoS Pathogens*, **2016**, 12, e1005763	7.6	167
114	Functional expression and characterization of Schistosoma mansoni cathepsin B and its trans-activation by an endogenous asparaginyl endopeptidase. *Molecular and Biochemical Parasitology*, **2003**, 131, 65-75	1.9	128
113	Blood ThTguts: an update on schistosome digestive peptidases. *Trends in Parasitology*, **2004**, 20, 241-8	6.4	125
112	Caenorhabditis elegans is a useful model for anthelmintic discovery. *Nature Communications*, **2015**, 6, 7485	17.4	103
111	RNA interference in Schistosoma mansoni schistosomula: selectivity, sensitivity and operation for larger-scale screening. *PLoS Neglected Tropical Diseases*, **2010**, 4, e850	4.8	95
110	Differential use of protease families for invasion by schistosome cercariae. *Biochimie*, **2008**, 90, 345-58	4.6	87
109	SmCB2, a novel tegumental cathepsin B from adult Schistosoma mansoni. *Molecular and Biochemical Parasitology*, **2002**, 121, 49-61	1.9	63
108	Chapter 4. Peptidases of trematodes. *Advances in Parasitology*, **2009**, 69, 205-97	3.2	59
107	Identification of a cDNA encoding an active asparaginyl endopeptidase of Schistosoma mansoni and its expression in Pichia pastoris. *FEBS Letters*, **2000**, 466, 244-8	3.8	52
106	Structural basis for inhibition of cathepsin B drug target from the human blood fluke, Schistosoma mansoni. *Journal of Biological Chemistry*, **2011**, 286, 35770-35781	5.4	51
105	Chemical and genetic validation of the statin drug target to treat the helminth disease, schistosomiasis. *PLoS ONE*, **2014**, 9, e87594	3.7	51
104	Synthesis of a sugar-based thiosemicarbazone series and structure-activity relationship versus the parasite cysteine proteases rhodesain, cruzain, and Schistosoma mansoni cathepsin B1. *Antimicrobial Agents and Chemotherapy*, **2015**, 59, 2666-77	5.9	45
103	Cysteine proteases as digestive enzymes in parasitic helminths. *PLoS Neglected Tropical Diseases*, **2018**, 12, e0005840	4.8	43
102	SmCL3, a gastrodermal cysteine protease of the human blood fluke Schistosoma mansoni. *PLoS Neglected Tropical Diseases*, **2009**, 3, e449	4.8	42

101	Regulation of Schistosoma mansoni development and reproduction by the mitogen-activated protein kinase signaling pathway. *PLoS Neglected Tropical Diseases*, **2014**, 8, e2949	4.8	40
100	Multiple cathepsin B isoforms in schistosomula of Trichobilharzia regenti: identification, characterisation and putative role in migration and nutrition. *International Journal for Parasitology*, **2005**, 35, 895-910	4.3	40
99	Structure-Bioactivity Relationship for Benzimidazole Thiophene Inhibitors of Polo-Like Kinase 1 (PLK1), a Potential Drug Target in Schistosoma mansoni. *PLoS Neglected Tropical Diseases*, **2016**, 10, e0004356	4.8	40
98	Sertraline, Paroxetine, and Chlorpromazine Are Rapidly Acting Anthelmintic Drugs Capable of Clinical Repurposing. *Scientific Reports*, **2018**, 8, 975	4.9	39
97	Sex-Biased Transcriptome of Schistosoma mansoni: Host-Parasite Interaction, Genetic Determinants and Epigenetic Regulators Are Associated with Sexual Differentiation. *PLoS Neglected Tropical Diseases*, **2016**, 10, e0004930	4.8	38
96	A single-cell RNA-seq atlas of identifies a key regulator of blood feeding. *Science*, **2020**, 369, 1644-1649	33.3	35
95	High Throughput and Computational Repurposing for Neglected Diseases. *Pharmaceutical Research* , **2018**, 36, 27	4.5	33
94	Targeting proteasomes in infectious organisms to combat disease. *FEBS Journal*, **2017**, 284, 1503-1517	5.7	32
93	Phenotypic, chemical and functional characterization of cyclic nucleotide phosphodiesterase 4 (PDE4) as a potential anthelmintic drug target. *PLoS Neglected Tropical Diseases*, **2017**, 11, e0005680	4.8	29
92	Serum albumin and □1 acid glycoprotein impede the killing of Schistosoma mansoni by the tyrosine kinase inhibitor Imatinib. *International Journal for Parasitology: Drugs and Drug Resistance*, **2014**, 4, 287-95	4	29
91	Prolyl Oligopeptidase from the Blood Fluke Schistosoma mansoni: From Functional Analysis to Anti-schistosomal Inhibitors. *PLoS Neglected Tropical Diseases*, **2015**, 9, e0003827	4.8	26
90	Screening of acyl hydrazide proteinase inhibitors for antiparasitic activity against Trypanosoma brucei. *International Journal of Antimicrobial Agents*, **2002**, 19, 227-31	14.3	25
89	Trypsin- and Chymotrypsin-like serine proteases in schistosoma mansoni-- The undiscovered countryT *PLoS Neglected Tropical Diseases*, **2014**, 8, e2766	4.8	24
88	Mapping the pro-peptide of the Schistosoma mansoni cathepsin B1 drug target: modulation of inhibition by heparin and design of mimetic inhibitors. *ACS Chemical Biology*, **2011**, 6, 609-17	4.9	24
87	Cure of hookworm infection with a cysteine protease inhibitor. *PLoS Neglected Tropical Diseases*, **2012**, 6, e1680	4.8	24
86	Excretion/secretion products from Schistosoma mansoni adults, eggs and schistosomula have unique peptidase specificity profiles. *Biochimie*, **2016**, 122, 99-109	4.6	23
85	Activation route of the Schistosoma mansoni cathepsin B1 drug target: structural map with a glycosaminoglycan switch. *Structure*, **2014**, 22, 1786-1798	5.2	23
84	Cysteine proteases during larval migration and development of helminths in their final host. *PLoS Neglected Tropical Diseases*, **2018**, 12, e0005919	4.8	18

83	SmSP2: A serine protease secreted by the blood fluke pathogen Schistosoma mansoni with anti-hemostatic properties. *PLoS Neglected Tropical Diseases*, **2018**, 12, e0006446	4.8	17
82	Evaluation of the CCA Immuno-Chromatographic Test to Diagnose Schistosoma mansoni in Minas Gerais State, Brazil. *PLoS Neglected Tropical Diseases*, **2016**, 10, e0004357	4.8	16
81	The Proteasome as a Drug Target in the Metazoan Pathogen,. *ACS Infectious Diseases*, **2019**, 5, 1802-1812	3.5	15
80	The QDREC web server: determining dose-response characteristics of complex macroparasites in phenotypic drug screens. *Bioinformatics*, **2015**, 31, 1515-8	7.2	14
79	Cruzain Inhibitory Activity of Leaf Essential Oils of Neotropical Lauraceae and Essential Oil Components. *Natural Product Communications*, **2007**, 2, 1934578X0700201	0.9	12
78	Brain-Penetrant Triazolopyrimidine and Phenylpyrimidine Microtubule Stabilizers as Potential Leads to Treat Human African Trypanosomiasis. *ChemMedChem*, **2018**, 13, 1751-1754	3.7	11
77	Multi-center screening of the Pathogen Box collection for schistosomiasis drug discovery. *Parasites and Vectors*, **2019**, 12, 493	4	10
76	A secreted schistosome cathepsin B1 cysteine protease and acute schistosome infection induce a transient T helper 17 response. *PLoS Neglected Tropical Diseases*, **2019**, 13, e0007070	4.8	9
75	Effect of Phenotypic Screening of Extracts and Fractions of Leaf and Stem Bark on Immature and Adult Stages of. *Journal of Parasitology Research*, **2018**, 2018, 9431467	1.9	9
74	Drug Discovery and Development for Schistosomiasis. *Methods and Principles in Medicinal Chemistry* , **2019**, 187-225	0.4	8
73	Identification of anisomycin, prodigiosin and obatoclax as compounds with broad-spectrum anti-parasitic activity. *PLoS Neglected Tropical Diseases*, **2020**, 14, e0008150	4.8	8
72	A single-cell RNAseq atlas of the pathogenic stage of Schistosoma mansoni identifies a key regulator of blood feeding		8
71	A Machine Learning Strategy for Drug Discovery Identifies Anti-Schistosomal Small Molecules. *ACS Infectious Diseases*, **2021**, 7, 406-420	5.5	8
70	Discovery and characterization of trypanocidal cysteine protease inhibitors from the "malaria box" *European Journal of Medicinal Chemistry*, **2019**, 179, 765-778	6.8	7
69	Integrating and Mining Helminth Genomes to Discover and Prioritize Novel Therapeutic Targets **2012**, 43-59		7
68	Bioactivity of Farnesyltransferase Inhibitors Against and. *Frontiers in Cellular and Infection Microbiology*, **2019**, 9, 180	5.9	6
67	Quantifying the mechanics of locomotion of the schistosome pathogen with respect to changes in its physical environment. *Journal of the Royal Society Interface*, **2019**, 16, 20180675	4.1	6
66	Substrate Specificity of Cysteine Proteases Beyond the S Pocket: Mutagenesis and Molecular Dynamics Investigation of Cathepsins L. *Frontiers in Molecular Biosciences*, **2018**, 5, 40	5.6	6

65	Antinematodal Drugs Modes of Action and Resistance: And Worms Will Not Come to Thee (Shakespeare: Cymbeline: IV, ii) **2012**, 233-249		6
64	Hit-to-Lead Optimization of Benzoxazepinoindazoles As Human African Trypanosomiasis Therapeutics. *Journal of Medicinal Chemistry*, **2020**, 63, 2527-2546	8.3	6
63	Selectivity and Physicochemical Optimization of Repurposed Pyrazolo[1,5-]pyridazines for the Treatment of Human African Trypanosomiasis. *Journal of Medicinal Chemistry*, **2020**, 63, 756-783	8.3	6
62	Odanacatib, a Cathepsin K Cysteine Protease Inhibitor, Kills Hookworm In Vivo. *Pharmaceuticals*, **2016**, 9,	5.2	6
61	TPT sulfonate, a single, oral dose schistosomicidal prodrug: In vivo efficacy, disposition and metabolic profiling. *International Journal for Parasitology: Drugs and Drug Resistance*, **2018**, 8, 571-586	4	6
60	Structure-Based Optimization of Quinazolines as Cruzain and CATL Inhibitors. *Journal of Medicinal Chemistry*, **2021**, 64, 13054-13071	8.3	6
59	Use of Rodent Models in the Discovery of Novel Anthelmintics181-199		6
58	Benzimidazole inhibitors of the major cysteine protease of. *Future Medicinal Chemistry*, **2019**, 11, 1537-1551	4.1	5
57	Novel and selective inactivators of Triosephosphate isomerase with anti-trematode activity. *Scientific Reports*, **2020**, 10, 2587	4.9	5
56	Molecular characterization and functional analysis of the Schistosoma mekongi Ca-dependent cysteine protease (calpain). *Parasites and Vectors*, **2019**, 12, 383	4	5
55	Mechanism-Based Screening Strategies for Anthelmintic Discovery **2012**, 121-134		5
54	Discovery, Mode of Action, and Commercialization of Derquantel **2012**, 297-307		5
53	Prospects for Immunoprophylaxis Against Fasciola hepatica (Liver Fluke) **2012**, 465-484		5
52	Promise of Bacillus thuringiensis Crystal Proteins as Anthelmintics **2012**, 267-281		5
51	3-O-(3?-Hydroxytetradecanoyl)lupeol from Sorocea trophoides Inhibits Cruzain. *Natural Product Communications*, **2007**, 2, 1934578X0700200	0.9	5
50	A multi-dimensional, time-lapse, high content screening platform applied to schistosomiasis drug discovery. *Communications Biology*, **2020**, 3, 747	6.7	5
49	Octopamine signaling in the metazoan pathogen : localization, small-molecule screening and opportunities for drug development. *DMM Disease Models and Mechanisms*, **2018**, 11,	4.1	5
48	Synthesis and Bioactivity of Phthalimide Analogs as Potential Drugs to Treat Schistosomiasis, a Neglected Disease of Poverty. *Pharmaceuticals*, **2020**, 13,	5.2	4

47	Development and optimization of a high-throughput screening method utilizing Ancylostoma ceylanicum egg hatching to identify novel anthelmintics. *PLoS ONE*, **2019**, 14, e0217019	3.7	4
46	Drug Discovery Approaches toward Anti-Parasitic Agents **2011**, 1-20		4
45	How Relevant is Caenorhabditis elegans as a Model for the Analysis of Parasitic Nematode Biology? **2012**, 23-41		4
44	Inhibition of Cruzain by Triterpenoids Isolated from a Salacia Species from Monteverde, Costa Rica. *Natural Product Communications*, **2007**, 2, 1934578X0700201	0.9	4
43	Azanitrile Inhibitors of the SmCB1 Protease Target Are Lethal to : Structural and Mechanistic Insights into Chemotype Reactivity. *ACS Infectious Diseases*, **2021**, 7, 189-201	5.5	4
42	Evaluation of a class of isatinoids identified from a high-throughput screen of human kinase inhibitors as anti-Sleeping Sickness agents. *PLoS Neglected Tropical Diseases*, **2019**, 13, e0007129	4.8	3
41	Efficacy, metabolism and pharmacokinetics of Ro 15-5458, a forgotten schistosomicidal 9-acridanone hydrazone. *Journal of Antimicrobial Chemotherapy*, **2020**, 75, 2925-2932	5.1	3
40	Chemical Composition and Cruzain Inhibitory Activity of Croton draco Bark Essential Oil from Monteverde, Costa Rica. *Natural Product Communications*, **2007**, 2, 1934578X0700200	0.9	3
39	Congeners Derived from Microtubule-Active Phenylpyrimidines Produce a Potent and Long-Lasting Paralysis of In Vitro. *ACS Infectious Diseases*, **2021**, 7, 1089-1103	5.5	3
38	Antiparasitic Properties of Propolis Extracts and Their Compounds. *Chemistry and Biodiversity*, **2021** , 18, e2100310	2.5	3
37	Ligand-Gated Ion Channels as Targets for Anthelmintic Drugs: Past, Current, and Future Perspectives1-21		3
36	Anthelmintic Drugs: Tools and Shortcuts for the Long Road from Discovery to Product217-232		3
35	Isoforms of Cathepsin B1 in Neurotropic Schistosomula of Differ in Substrate Preferences and a Highly Expressed Catalytically Inactive Paralog Binds Cystatin. *Frontiers in Cellular and Infection Microbiology*, **2020**, 10, 66	5.9	2
34	Chemotherapeutic Development Strategies for Schistosomiasis299-321		2
33	Druggable Hot Spots in the Schistosomiasis Cathepsin B1 Target Identified by Functional and Binding Mode Analysis of Potent Vinyl Sulfone Inhibitors. *ACS Infectious Diseases*, **2021**, 7, 1077-1088	5.5	2
32	Understanding the key processes of excellence as a prerequisite to establishing academic centres of excellence in Africa. *BMC Medical Education*, **2021**, 21, 36	3.3	2
31	Quantitative High-Content Screening-Based Drug Discovery against Helmintic Diseases159-179		2
30	To Kill a Mocking Worm: Strategies to Improve Caenorhabditis elegans as a Model System for use in Anthelmintic Discovery201-216		2

29	Drugs and Targets to Perturb the Symbiosis of Wolbachia and Filarial Nematodes251-265		2
28	Proteases as Vaccines Against Gastrointestinal Nematode Parasites of Sheep and Cattle399-420		2
27	Identification and Profiling of Nematicidal Compounds in Veterinary Parasitology135-157		2
26	Uncovering Biological Application of Brazilian Green Propolis: A Phenotypic Screening against Schistosoma mansoni. *Chemistry and Biodiversity*, **2020**, 17, e2000277	2.5	1
25	Design, synthesis, and evaluation of aza-peptide aldehydes and ketones as novel and selective protease inhibitors. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2020**, 35, 1387-1402	5.6	1
24	Structure-Bioactivity Relationships of Lapatinib Derived Analogs against. *ACS Medicinal Chemistry Letters*, **2020**, 11, 258-265	4.3	1
23	Barefoot thruTthe Valley of Darkness: Preclinical Development of a Human Hookworm Vaccine341-356		1
22	Lead Optimization of 3,5-Disubstituted-7-Azaindoles for the Treatment of Human African Trypanosomiasis. *Journal of Medicinal Chemistry*, **2021**, 64, 9404-9430	8.3	1
21	Should the enzyme name TrhodesainTbe discontinued?. *Molecular and Biochemical Parasitology*, **2021**, 245, 111395	1.9	1
20	Anti-schistosomal activities of quinoxaline-containing compounds: From hit identification to lead optimisation. *European Journal of Medicinal Chemistry*, **2021**, 226, 113823	6.8	1
19	Monepantel: From Discovery to Mode of Action283-296		1
18	Recent Progress in Transcriptomics of Key Gastrointestinal Nematodes of Animals Fundamental Research Toward New Intervention Strategies61-72		1
17	Harnessing Genomic Technologies to Explore the Molecular Biology of Liver Flukes-Major Implications for Fundamental and Applied Research73-87		1
16	Vaccines Linked to Chemotherapy: A New Approach to Control Helminth Infections357-375		0
15	Biomechanical interactions of Schistosoma mansoni eggs with vascular endothelial cells facilitate egg extravasation.. *PLoS Pathogens*, **2022**, 18, e1010309	7.6	0
14	Anthelmintic drug discovery: Into the future **2016**, 215-228		
13	Mechanisms of Immune Modulation by Fasciola hepatica: Importance for Vaccine Development and for Novel Immunotherapeutics **2012**, 451-463		
12	RNA Interference as a Tool for Drug Discovery in Parasitic Flatworms **2012**, 105-119		

11	Brazilian green propolis reduces worm burden and hepatic granuloma formation in a Schistosoma mansoni experimental murine model.. *Parasitology Research*, **2022**, 121, 775	2.4
10	Praziquantel: Too Good to be Replaced?309-321	
9	Schistosomiasis Vaccines - New Approaches to Antigen Discovery and Promising New Candidates421-433	
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4	Identification of anisomycin, prodigiosin and obatoclax as compounds with broad-spectrum anti-parasitic activity **2020**, 14, e0008150	
3	Identification of anisomycin, prodigiosin and obatoclax as compounds with broad-spectrum anti-parasitic activity **2020**, 14, e0008150	
2	Identification of anisomycin, prodigiosin and obatoclax as compounds with broad-spectrum anti-parasitic activity **2020**, 14, e0008150	
1	Identification of anisomycin, prodigiosin and obatoclax as compounds with broad-spectrum anti-parasitic activity **2020**, 14, e0008150	