Laura-Isobel McCall

List of Publications by Year
in descending order

42 papers	3,216 citations	361388 20 h-index	276858 41 g-index
52 all docs	52 docs citations	52 times ranked	5593 citing authors

#	Article	IF	Citations
1	Best practices for analysing microbiomes. Nature Reviews Microbiology, 2018, 16, 410-422.	28.6	1,138
2	Feature-based molecular networking in the GNPS analysis environment. Nature Methods, 2020, 17, 905-908.	19.0	650
3	Determinants for the Development of Visceral Leishmaniasis Disease. PLoS Pathogens, 2013, 9, e1003053.	4.7	175
4	Cysteine proteases in protozoan parasites. PLoS Neglected Tropical Diseases, 2018, 12, e0006512.	3.0	104
5	Genetic Analysis of Leishmania donovani Tropism Using a Naturally Attenuated Cutaneous Strain. PLoS Pathogens, 2014, 10, e1004244.	4.7	97
6	Targeting Ergosterol Biosynthesis in Leishmania donovani: Essentiality of Sterol 14alpha-demethylase. PLoS Neglected Tropical Diseases, 2015, 9, e0003588.	3.0	90
7	Home chemical and microbial transitions across urbanization. Nature Microbiology, 2020, 5, 108-115.	13.3	83
8	ReDU: a framework to find and reanalyze public mass spectrometry data. Nature Methods, 2020, 17, 901-904.	19.0	79
9	Machine Learning Models and Pathway Genome Data Base for Trypanosoma cruzi Drug Discovery. PLoS Neglected Tropical Diseases, 2015, 9, e0003878.	3.0	74
10	Localization and induction of the A2 virulence factor in Leishmania: evidence that A2 is a stress response protein. Molecular Microbiology, 2010, 77, 518-530.	2.5	60
11	Determinants of disease phenotype in trypanosomatid parasites. Trends in Parasitology, 2014, 30, 342-349.	3.3	58
12	Mass Spectrometry-Based Visualization of Molecules Associated with Human Habitats. Analytical Chemistry, 2016, 88, 10775-10784.	6.5	44
13	A complete Leishmania donovani reference genome identifies novel genetic variations associated with virulence. Scientific Reports, 2018, 8, 16549.	3.3	41
14	Mapping of host-parasite-microbiome interactions reveals metabolic determinants of tropism and tolerance in Chagas disease. Science Advances, 2020, 6, eaaz2015.	10.3	39
15	Experimental Chagas disease-induced perturbations of the fecal microbiome and metabolome. PLoS Neglected Tropical Diseases, 2018, 12, e0006344.	3.0	39
16	Leishmanization revisited: Immunization with a naturally attenuated cutaneous Leishmania donovani isolate from Sri Lanka protects against visceral leishmaniasis. Vaccine, 2013, 31, 1420-1425.	3.8	38
17	Mass Spectrometry-Based Chemical Cartography of a Cardiac Parasitic Infection. Analytical Chemistry, 2017, 89, 10414-10421.	6.5	35
18	Location, Location, Location: Five Facts about Tissue Tropism and Pathogenesis. PLoS Pathogens, 2016, 12, e1005519.	4.7	31

#	Article	IF	Citations
19	Involvement of the Leishmania donovani virulence factor A2 in protection against heat and oxidative stress. Experimental Parasitology, 2012, 132, 109-115.	1.2	29
20	Synthesis and Evaluation of Oxyguanidine Analogues of the Cysteine Protease Inhibitor WRR-483 against Cruzain. ACS Medicinal Chemistry Letters, 2016, 7, 77-82.	2.8	26
21	Rapid Chagas Disease Drug Target Discovery Using Directed Evolution in Drug-Sensitive Yeast. ACS Chemical Biology, 2017, 12, 422-434.	3.4	26
22	Adaptation of Leishmania donovani to Cutaneous and Visceral Environments: in Vivo Selection and Proteomic Analysis. Journal of Proteome Research, 2015, 14, 1033-1059.	3.7	20
23	Environmental structure impacts microbial composition and secondary metabolism. ISME Communications, 2022, 2, .	4.2	19
24	Spatial metabolomics identifies localized chemical changes in heart tissue during chronic cardiac Chagas Disease. PLoS Neglected Tropical Diseases, 2021, 15, e0009819.	3.0	18
25	Scaffold and Parasite Hopping: Discovery of New Protozoal Proliferation Inhibitors. ACS Medicinal Chemistry Letters, 2020, 11, 249-257.	2.8	17
26	Alterations to the Cardiac Metabolome Induced by Chronic T. cruzi Infection Relate to the Degree of Cardiac Pathology. ACS Infectious Diseases, 2021, 7, 1638-1649.	3.8	17
27	Insights gained into respiratory infection pathogenesis using lung tissue metabolomics. PLoS Pathogens, 2020, 16, e1008662.	4.7	15
28	Metabolomics: Eavesdropping on silent conversations between hosts and their unwelcome guests. PLoS Pathogens, 2018, 14, e1006926.	4.7	11
29	Ethical priority of the most actionable system of biomolecules: the metabolome. American Journal of Physical Anthropology, 2020, 171, 177-181.	2.1	10
30	Local Phenomena Shape Backyard Soil Metabolite Composition. Metabolites, 2020, 10, 86.	2.9	10
31	Tryp-ing Up Metabolism: Role of Metabolic Adaptations in Kinetoplastid Disease Pathogenesis. Infection and Immunity, 2021, 89, .	2.2	9
32	Central role of metabolism in Trypanosoma cruzi tropism and Chagas disease pathogenesis. Current Opinion in Microbiology, 2021, 63, 204-209.	5.1	9
33	Dysregulation of Glycerophosphocholines in the Cutaneous Lesion Caused by Leishmania major in Experimental Murine Models. Pathogens, 2021, 10, 593.	2.8	7
34	Analysis of university workplace building surfaces reveals usage-specific chemical signatures. Building and Environment, 2019, 162, 106289.	6.9	6
35	Quo vadis? Central Rules of Pathogen and Disease Tropism. Frontiers in Cellular and Infection Microbiology, 2021, 11, 640987.	3.9	6
36	Spatial Metabolomics Reveals Localized Impact of Influenza Virus Infection on the Lung Tissue Metabolome. MSystems, 2022, 7, .	3.8	6

#	Article	IF	Citations
37	Building Natural Product Libraries Using Quantitative Clade-Based and Chemical Clustering Strategies. MSystems, 2021, 6, e0064421.	3.8	3
38	Enabling Quantitative Analysis of Surface Small Molecules for Exposomics and Behavioral Studies. Journal of the American Society for Mass Spectrometry, 2022, 33, 412-419.	2.8	3
39	Identification of Leucinostatins from Ophiocordyceps sp. as Antiparasitic Agents against Trypanosoma cruzi. ACS Omega, 2022, 7, 7675-7682.	3.5	3
40	Chemical Cartography Approaches to Study Trypanosomatid Infection. Journal of Visualized Experiments, 2022, , .	0.3	2
41	mSphere of Influence: Forgotten Questions. MSphere, 2021, 6, e0052021.	2.9	1
42	Molecular networking in infectious disease models. Methods in Enzymology, 2022, 663, 341-375.	1.0	1