

# Laura-Isobel McCall

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

3,216  
citations

361413  
20  
h-index

276875  
41  
g-index

52  
all docs

52  
docs citations

52  
times ranked

5593  
citing authors

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

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