

# Jessica L Metcalf

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

21,238  
citations

101543

36  
h-index

144013

57  
g-index

64  
all docs

64  
docs citations

64  
times ranked

25349  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reproducible, interactive, scalable and extensible microbiome data science using QIIME 2. <i>Nature Biotechnology</i> , 2019, 37, 852-857.	17.5	11,167
2	Animals in a bacterial world, a new imperative for the life sciences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3229-3236.	7.1	2,181
3	Longitudinal analysis of microbial interaction between humans and the indoor environment. <i>Science</i> , 2014, 345, 1048-1052.	12.6	751
4	The microbiome of uncontacted Amerindians. <i>Science Advances</i> , 2015, 1, .	10.3	721
5	Microbiome analyses of blood and tissues suggest cancer diagnostic approach. <i>Nature</i> , 2020, 579, 567-574.	27.8	691
6	American Gut: an Open Platform for Citizen Science Microbiome Research. <i>MSystems</i> , 2018, 3, .	3.8	604
7	Subsistence strategies in traditional societies distinguish gut microbiomes. <i>Nature Communications</i> , 2015, 6, 6505.	12.8	449
8	Microbial community assembly and metabolic function during mammalian corpse decomposition. <i>Science</i> , 2016, 351, 158-162.	12.6	381
9	Preservation Methods Differ in Fecal Microbiome Stability, Affecting Suitability for Field Studies. <i>MSystems</i> , 2016, 1, .	3.8	367
10	Convergence of gut microbiomes in myrmecophagous mammals. <i>Molecular Ecology</i> , 2014, 23, 1301-1317.	3.9	311
11	The Effects of Captivity on the Mammalian Gut Microbiome. <i>Integrative and Comparative Biology</i> , 2017, 57, 690-704.	2.0	301
12	Balance Trees Reveal Microbial Niche Differentiation. <i>MSystems</i> , 2017, 2, .	3.8	284
13	A microbial clock provides an accurate estimate of the postmortem interval in a mouse model system. <i>ELife</i> , 2013, 2, e01104.	6.0	270
14	Evolutionary trends in host physiology outweigh dietary niche in structuring primate gut microbiomes. <i>ISME Journal</i> , 2019, 13, 576-587.	9.8	236
15	Insights from Characterizing Extinct Human Gut Microbiomes. <i>PLoS ONE</i> , 2012, 7, e51146.	2.5	178
16	Revising the recent evolutionary history of equids using ancient DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21754-21759.	7.1	136
17	Evaluating the impact of domestication and captivity on the horse gut microbiome. <i>Scientific Reports</i> , 2017, 7, 15497.	3.3	112
18	Synergistic roles of climate warming and human occupation in Patagonian megafaunal extinctions during the Last Deglaciation. <i>Science Advances</i> , 2016, 2, e1501682.	10.3	102

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19	Characterizing microbial communities through space and time. <i>Current Opinion in Biotechnology</i> , 2012, 23, 431-436.	6.6	98
20	Microbiome Tools for Forensic Science. <i>Trends in Biotechnology</i> , 2017, 35, 814-823.	9.3	93
21	Seasonal variation of postmortem microbial communities. <i>Forensic Science, Medicine, and Pathology</i> , 2015, 11, 202-207.	1.4	88
22	Estimating the postmortem interval using microbes: Knowledge gaps and a path to technology adoption. <i>Forensic Science International: Genetics</i> , 2019, 38, 211-218.	3.1	86
23	Vertebrate Decomposition Is Accelerated by Soil Microbes. <i>Applied and Environmental Microbiology</i> , 2014, 80, 4920-4929.	3.1	84
24	Patterns of Oral Microbiota Diversity in Adults and Children: A Crowdsourced Population Study. <i>Scientific Reports</i> , 2020, 10, 2133.	3.3	82
25	Microbiome Data Accurately Predicts the Postmortem Interval Using Random Forest Regression Models. <i>Genes</i> , 2018, 9, 104.	2.4	80
26	Using the gut microbiota as a novel tool for examining colobine primate GI health. <i>Global Ecology and Conservation</i> , 2016, 7, 225-237.	2.1	76
27	Our microbial selves: what ecology can teach us. <i>EMBO Reports</i> , 2011, 12, 775-784.	4.5	71
28	Ancient mtDNA identifies post-glacial recolonisation, not recent bottlenecks, as the primary driver of contemporary mtDNA phylogeography and diversity in Scandinavian brown bears. <i>Diversity and Distributions</i> , 2013, 19, 245-256.	4.1	59
29	Coprolites reveal ecological interactions lost with the extinction of New Zealand birds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1546-1551.	7.1	54
30	Increasing gender diversity in the STEM research workforce. <i>Science</i> , 2019, 366, 692-695.	12.6	52
31	Microbiology of death. <i>Current Biology</i> , 2016, 26, R561-R563.	3.9	50
32	Carcass mass has little influence on the structure of gravesoil microbial communities. <i>International Journal of Legal Medicine</i> , 2016, 130, 253-263.	2.2	49
33	Across the great divide: genetic forensics reveals misidentification of endangered cutthroat trout populations. <i>Molecular Ecology</i> , 2007, 16, 4445-4454.	3.9	46
34	The effect of climate and environmental change on the megafaunal moa of New Zealand in the absence of humans. <i>Quaternary Science Reviews</i> , 2012, 50, 141-153.	3.0	44
35	Integrating multiple lines of evidence into historical biogeography hypothesis testing: a Bison bison case study. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20132782.	2.6	41
36	Historical stocking data and 19th century mtDNA reveal human-induced changes to native diversity and distribution of cutthroat trout. <i>Molecular Ecology</i> , 2012, 21, 5194-5207.	3.9	40

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37	Trace Evidence Potential in Postmortem Skin Microbiomes: From Death Scene to Morgue. <i>Journal of Forensic Sciences</i> , 2019, 64, 791-798.	1.6	40
38	Replenishing our defensive microbes. <i>BioEssays</i> , 2013, 35, 810-817.	2.5	39
39	Ground beef microbiome changes with antimicrobial decontamination interventions and product storage. <i>PLoS ONE</i> , 2019, 14, e0217947.	2.5	30
40	Late Pleistocene Australian Marsupial DNA Clarifies the Affinities of Extinct Megafaunal Kangaroos and Wallabies. <i>Molecular Biology and Evolution</i> , 2015, 32, 574-584.	8.9	29
41	Hybridization Dynamics between Colorado's Native Cutthroat Trout and Introduced Rainbow Trout. <i>Journal of Heredity</i> , 2008, 99, 149-156.	2.4	27
42	Equine Fecal Microbiota Changes Associated With Anthelmintic Administration. <i>Journal of Equine Veterinary Science</i> , 2019, 77, 98-106.	0.9	27
43	A mechanistic spatio-temporal framework for modelling individual-to-individual transmission—With an application to the 2014-2015 West Africa Ebola outbreak. <i>PLoS Computational Biology</i> , 2017, 13, e1005798.	3.2	26
44	Investigation of tylosin in feed of feedlot cattle and effects on liver abscess prevalence, and fecal and soil microbiomes and resistomes. <i>Journal of Animal Science</i> , 2019, 97, 4567-4578.	0.5	21
45	Is there convergence of gut microbes in blood-feeding vertebrates?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180249.	4.0	21
46	Ancient human oral plaque preserves a wealth of biological data. <i>Nature Genetics</i> , 2014, 46, 321-323.	21.4	20
47	A Pilot Study of Microbial Succession in Human Rib Skeletal Remains during Terrestrial Decomposition. <i>MSphere</i> , 2021, 6, e0045521.	2.9	12
48	Request a woman scientist: A database for diversifying the public face of science. <i>PLoS Biology</i> , 2019, 17, e3000212.	5.6	11
49	The genetic legacy of more than a century of stocking trout: a case study in Rocky Mountain National Park, Colorado, USA. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2015, 72, 1565-1574.	1.4	9
50	Plant Selenium Hyperaccumulation Affects Rhizosphere: Enhanced Species Richness and Altered Species Composition. <i>Phytobiomes Journal</i> , 2018, 2, 82-91.	2.7	9
51	Mating frequency, within-colony relatedness and male production in a yellow jacket wasp, <i>Dolichovespula arenaria</i> . <i>Molecular Ecology</i> , 2004, 13, 3703-3707.	3.9	7
52	Using microbiome tools for estimating the postmortem interval. , 2020, , 171-191.		7
53	Regioselective nitration of N <sup>1</sup> ,N <sup>1</sup> -bis(trifluoroacetyl)-L-tryptophan methyl ester: Efficient synthesis of 2-nitro and 6-nitro-N-trifluoroacetyl-L-tryptophan methyl ester. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 5750-5752.	2.2	6
54	The importance of north-west Madagascar for marine turtle conservation. <i>Oryx</i> , 2007, 41, 232-238.	1.0	5

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55	Animal models for understanding microbial decomposition of human remains. <i>Drug Discovery Today: Disease Models</i> , 2018, 28, 117-125.	1.2	5
56	Air versus Water Chilling of Chicken: a Pilot Study of Quality, Shelf-Life, Microbial Ecology, and Economics. <i>MSystems</i> , 2021, 6, .	3.8	4
57	A pilot study characterizing gravesoil bacterial communities a decade after swine decomposition. <i>Forensic Science International</i> , 2021, 323, 110782.	2.2	4
58	Pre- and post-operative antibiotics in conjunction with cytoreductive surgery and heated intraperitoneal chemotherapy (HIPEC) should be considered for pseudomyxoma peritonei (PMP) treatment. <i>European Journal of Surgical Oncology</i> , 2019, 45, 1723-1726.	1.0	2
59	Experiences and lessons learned from two virtual, hands-on microbiome bioinformatics workshops. <i>PLoS Computational Biology</i> , 2021, 17, e1009056.	3.2	2