

Katrine L Whiteson

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

4,972
citations

172457

29
h-index

114465

63
g-index

75
all docs

75
docs citations

75
times ranked

7386
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacteriophage adhering to mucus provide a non-host-derived immunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10771-10776.	7.1	753
2	Mechanisms of Site-Specific Recombination. <i>Annual Review of Biochemistry</i> , 2006, 75, 567-605.	11.1	708
3	Minimum Information about an Uncultivated Virus Genome (MIUViG). <i>Nature Biotechnology</i> , 2019, 37, 29-37.	17.5	414
4	Going viral: next-generation sequencing applied to phage populations in the human gut. <i>Nature Reviews Microbiology</i> , 2012, 10, 607-617.	28.6	377
5	Metagenomic study of the oral microbiota by Illumina high-throughput sequencing. <i>Journal of Microbiological Methods</i> , 2009, 79, 266-271.	1.6	289
6	Study of inter- and intra-individual variations in the salivary microbiota. <i>BMC Genomics</i> , 2010, 11, 523.	2.8	212
7	Global phylogeography and ancient evolution of the widespread human gut virus crAssphage. <i>Nature Microbiology</i> , 2019, 4, 1727-1736.	13.3	184
8	The Cancer Microbiome: Distinguishing Direct and Indirect Effects Requires a Systemic View. <i>Trends in Cancer</i> , 2020, 6, 192-204.	7.4	162
9	Breath gas metabolites and bacterial metagenomes from cystic fibrosis airways indicate active pH neutral 2,3-butanedione fermentation. <i>ISME Journal</i> , 2014, 8, 1247-1258.	9.8	114
10	The Microbiome and Metabolome of Preterm Infant Stool Are Personalized and Not Driven by Health Outcomes, Including Necrotizing Enterocolitis and Late-Onset Sepsis. <i>MSphere</i> , 2018, 3, .	2.9	107
11	The Upper Respiratory Tract as a Microbial Source for Pulmonary Infections in Cystic Fibrosis. Parallels from Island Biogeography. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 189, 1309-1315.	5.6	100
12	The CodY pleiotropic repressor controls virulence in gram-positive pathogens. <i>FEMS Immunology and Medical Microbiology</i> , 2011, 62, 123-139.	2.7	94
13	Biogeochemical Forces Shape the Composition and Physiology of Polymicrobial Communities in the Cystic Fibrosis Lung. <i>MBio</i> , 2014, 5, e00956-13.	4.1	94
14	Microbial, host and xenobiotic diversity in the cystic fibrosis sputum metabolome. <i>ISME Journal</i> , 2016, 10, 1483-1498.	9.8	88
15	Ecological networking of cystic fibrosis lung infections. <i>Npj Biofilms and Microbiomes</i> , 2016, 2, 4.	6.4	77
16	Gut microbial and metabolomic profiles after fecal microbiota transplantation in pediatric ulcerative colitis patients. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	2.7	73
17	High-Fiber, Whole-Food Dietary Intervention Alters the Human Gut Microbiome but Not Fecal Short-Chain Fatty Acids. <i>MSystems</i> , 2021, 6, .	3.8	69
18	Bacterial Diversity in Oral Samples of Children in Niger with Acute Noma, Acute Necrotizing Gingivitis, and Healthy Controls. <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1556.	3.0	66

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19	A Winogradsky-based culture system shows an association between microbial fermentation and cystic fibrosis exacerbation. ISME Journal, 2015, 9, 1024-1038.	9.8	59
20	Solutions in microbiome engineering: prioritizing barriers to organism establishment. ISME Journal, 2022, 16, 331-338.	9.8	58
21	Analysis of the salivary microbiome using culture-independent techniques. Journal of Clinical Bioinformatics, 2012, 2, 4.	1.2	54
22	Mechanistic Model of <i>Rothia mucilaginosa</i> Adaptation toward Persistence in the CF Lung, Based on a Genome Reconstructed from Metagenomic Data. PLoS ONE, 2013, 8, e64285.	2.5	51
23	Longitudinal Monitoring of Biofilm Formation via Robust Surface-Enhanced Raman Scattering Quantification of <i>Pseudomonas aeruginosa</i> -Produced Metabolites. ACS Applied Materials & Interfaces, 2018, 10, 12364-12373.	8.0	51
24	PQS Produced by the <i>Pseudomonas aeruginosa</i> Stress Response Repels Swarms Away from Bacteriophage and Antibiotics. Journal of Bacteriology, 2019, 201, .	2.2	49
25	Metabolomics of pulmonary exacerbations reveals the personalized nature of cystic fibrosis disease. PeerJ, 2016, 4, e2174.	2.0	45
26	Maturation of the infant rhesus macaque gut microbiome and its role in the development of diarrheal disease. Genome Biology, 2019, 20, 173.	8.8	40
27	RNA Viromics of Southern California Wastewater and Detection of SARS-CoV-2 Single-Nucleotide Variants. Applied and Environmental Microbiology, 2021, 87, e0144821.	3.1	40
28	Tracking Polymicrobial Metabolism in Cystic Fibrosis Airways: <i>Pseudomonas aeruginosa</i> Metabolism and Physiology Are Influenced by <i>Rothia mucilaginosa</i> -Derived Metabolites. MSphere, 2018, 3, .	2.9	34
29	The Phosphate Binder Ferric Citrate Alters the Gut Microbiome in Rats with Chronic Kidney Disease. Journal of Pharmacology and Experimental Therapeutics, 2018, 367, 452-460.	2.5	33
30	Editorial: Virus Discovery by Metagenomics: The (Im)possibilities. Frontiers in Microbiology, 2017, 8, 1710.	3.5	32
31	Bacteria in the airways of patients with cystic fibrosis are genetically capable of producing VOCs in breath. Journal of Breath Research, 2016, 10, 047103.	3.0	30
32	Predictable Molecular Adaptation of Coevolving <i>Enterococcus faecium</i> and Lytic Phage EfV12-phi1. Frontiers in Microbiology, 2018, 9, 3192.	3.5	30
33	Cervicovaginal Microbiome Composition Is Associated with Metabolic Profiles in Healthy Pregnancy. MBio, 2020, 11, .	4.1	30
34	Fermentation products in the cystic fibrosis airways induce aggregation and dormancy-associated expression profiles in a CF clinical isolate of <i>Pseudomonas aeruginosa</i> . FEMS Microbiology Letters, 2018, 365, .	1.8	27
35	Stable isotope profiles reveal active production of VOCs from human-associated microbes. Journal of Breath Research, 2017, 11, 017101.	3.0	26
36	Model Systems to Study the Chronic, Polymicrobial Infections in Cystic Fibrosis: Current Approaches and Exploring Future Directions. MBio, 2021, 12, e0176321.	4.1	26

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37	Identification of a Potential General Acid/Base in the Reversible Phosphoryl Transfer Reactions Catalyzed by Tyrosine Recombinases: Flp H305. <i>Chemistry and Biology</i> , 2007, 14, 121-129.	6.0	24
38	Lumacaftor/ivacaftor changes the lung microbiome and metabolome in cystic fibrosis patients. <i>ERJ Open Research</i> , 2021, 7, 00731-2020.	2.6	21
39	Longitudinal Associations of the Cystic Fibrosis Airway Microbiome and Volatile Metabolites: A Case Study. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 174.	3.9	19
40	Fiber Force: A Fiber Diet Intervention in an Advanced Course-Based Undergraduate Research Experience (CURE) Course. <i>Journal of Microbiology and Biology Education</i> , 2020, 21, .	1.0	15
41	Noma Affected Children from Niger Have Distinct Oral Microbial Communities Based on High-Throughput Sequencing of 16S rRNA Gene Fragments. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e3240.	3.0	14
42	The emergence of microbiome centres. <i>Nature Microbiology</i> , 2020, 5, 2-3.	13.3	13
43	Binding and Catalytic Contributions to Site Recognition by Flp Recombinase. <i>Journal of Biological Chemistry</i> , 2008, 283, 11414-11423.	3.4	12
44	Fecal Microbiota Transplantation for the Treatment of Refractory Recurrent Urinary Tract Infection. <i>Obstetrics and Gynecology</i> , 2020, 136, 771-773.	2.4	12
45	The salivary microbiome, assessed by a high-throughput and culture-independent approach. <i>Journal of Integrated OMICS</i> , 2011, 1, .	0.5	11
46	Making It Last: Storage Time and Temperature Have Differential Impacts on Metabolite Profiles of Airway Samples from Cystic Fibrosis Patients. <i>MSystems</i> , 2017, 2, .	3.8	11
47	Cystic Fibrosis-Associated <i>Stenotrophomonas maltophilia</i> Strain-Specific Adaptations and Responses to pH. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	11
48	Metagenomics of Wastewater Influent from Southern California Wastewater Treatment Facilities in the Era of COVID-19. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	11
49	A genomic perspective on a new bacterial genus and species from the <i>Alcaligenaceae</i> family, <i>Basilea psittacipulmonis</i> . <i>BMC Genomics</i> , 2014, 15, 169.	2.8	10
50	Phage Cocktails Constrain the Growth of <i>Enterococcus</i> . <i>MSystems</i> , 2022, 7, .	3.8	9
51	Thriving Under Stress: <i>Pseudomonas aeruginosa</i> Outcompetes the Background Polymicrobial Community Under Treatment Conditions in a Novel Chronic Wound Model. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 569685.	3.9	8
52	The cure from within? a review of the microbiome and diet in melanoma. <i>Cancer and Metastasis Reviews</i> , 2022, 41, 261-280.	5.9	8
53	Fecal Microbial Community Composition in Myeloproliferative Neoplasm Patients Is Associated with an Inflammatory State. <i>Microbiology Spectrum</i> , 2022, 10, e0003222.	3.0	8
54	Getting Our Fingers on the Pulse of Slow-Growing Bacteria in Hard-To-Reach Places. <i>Journal of Bacteriology</i> , 2018, 200, .	2.2	7

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55	Integrating Virus Monitoring Strategies for Safe Non-Potable Water Reuse. <i>Water (Switzerland)</i> , 2022, 14, 1187.	2.7	7
56	Liquid Chromatography Mass Spectrometry Detection of Antibiotic Agents in Sputum from Persons with Cystic Fibrosis. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	3.2	5
57	Infant gut microbial colonization and health: recent findings from metagenomics studies. <i>Journal of Integrated OMICS</i> , 2012, 2, .	0.5	4
58	Comparing Stable Isotope Enrichment by Gas Chromatography with Time-of-Flight, Quadrupole Time-of-Flight, and Quadrupole Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 2174-2182.	6.5	4
59	Design and Development of a Model to Study the Effect of Supplemental Oxygen on the Cystic Fibrosis Airway Microbiome. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	4
60	Conceptual Exchanges for Understanding Free-Living and Host-Associated Microbiomes. <i>MSystems</i> , 2022, 7, e0137421.	3.8	3
61	Vive la Persistence: Engineering Human Microbiomes in the 21st Century. <i>MSystems</i> , 2018, 3, .	3.8	2
62	Investigating the Role of the Gut Microbiome in the Inflammatory State of Myeloproliferative Neoplasms. <i>Blood</i> , 2018, 132, 3051-3051.	1.4	2
63	Plasma Metabolomics in Response to an Acute Bout of Exercise in Adolescents Boys and Girls. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 282-283.	0.4	1