

Kyle Bittinger

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

60,246
citations

57758

44
h-index

49909

87
g-index

103
all docs

103
docs citations

103
times ranked

65501
citing authors

#	ARTICLE	IF	CITATIONS
1	QIIME allows analysis of high-throughput community sequencing data. <i>Nature Methods</i> , 2010, 7, 335-336.	19.0	31,818
2	Reproducible, interactive, scalable and extensible microbiome data science using QIIME 2. <i>Nature Biotechnology</i> , 2019, 37, 852-857.	17.5	11,167
3	Linking Long-Term Dietary Patterns with Gut Microbial Enterotypes. <i>Science</i> , 2011, 334, 105-108.	12.6	5,253
4	Normalization and microbial differential abundance strategies depend upon data characteristics. <i>Microbiome</i> , 2017, 5, 27.	11.1	1,434
5	Topographical Continuity of Bacterial Populations in the Healthy Human Respiratory Tract. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011, 184, 957-963.	5.6	912
6	Association Between Breast Milk Bacterial Communities and Establishment and Development of the Infant Gut Microbiome. <i>JAMA Pediatrics</i> , 2017, 171, 647.	6.2	749
7	Correlation Between Intraluminal Oxygen Gradient and Radial Partitioning of Intestinal Microbiota. <i>Gastroenterology</i> , 2014, 147, 1055-1063.e8.	1.3	658
8	Inflammation, Antibiotics, and Diet as Environmental Stressors of the Gut Microbiome in Pediatric Crohn's Disease. <i>Cell Host and Microbe</i> , 2015, 18, 489-500.	11.0	646
9	Comparison of placenta samples with contamination controls does not provide evidence for a distinct placenta microbiota. <i>Microbiome</i> , 2016, 4, 29.	11.1	447
10	Comparative metabolomics in vegans and omnivores reveal constraints on diet-dependent gut microbiota metabolite production. <i>Gut</i> , 2016, 65, 63-72.	12.1	428
11	Optimizing methods and dodging pitfalls in microbiome research. <i>Microbiome</i> , 2017, 5, 52.	11.1	420
12	Dysbiosis-Induced Secondary Bile Acid Deficiency Promotes Intestinal Inflammation. <i>Cell Host and Microbe</i> , 2020, 27, 659-670.e5.	11.0	404
13	Disordered Microbial Communities in the Upper Respiratory Tract of Cigarette Smokers. <i>PLoS ONE</i> , 2010, 5, e15216.	2.5	350
14	Sampling and pyrosequencing methods for characterizing bacterial communities in the human gut using 16S sequence tags. <i>BMC Microbiology</i> , 2010, 10, 206.	3.3	335
15	Power and sample-size estimation for microbiome studies using pairwise distances and PERMANOVA. <i>Bioinformatics</i> , 2015, 31, 2461-2468.	4.1	326
16	Diabetes Enhances IL-17 Expression and Alters the Oral Microbiome to Increase Its Pathogenicity. <i>Cell Host and Microbe</i> , 2017, 22, 120-128.e4.	11.0	248
17	Virus-helminth coinfection reveals a microbiota-independent mechanism of immunomodulation. <i>Science</i> , 2014, 345, 578-582.	12.6	238
18	Lack of detection of a human placenta microbiome in samples from preterm and term deliveries. <i>Microbiome</i> , 2018, 6, 196.	11.1	221

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19	Fungi of the Murine Gut: Episodic Variation and Proliferation during Antibiotic Treatment. PLoS ONE, 2013, 8, e71806.	2.5	201
20	Fungal Signature in the Gut Microbiota of Pediatric Patients With Inflammatory Bowel Disease. Inflammatory Bowel Diseases, 2015, 21, 1948-1956.	1.9	194
21	The stepwise assembly of the neonatal virome is modulated by breastfeeding. Nature, 2020, 581, 470-474.	27.8	185
22	Microbes vs. chemistry in the origin of the anaerobic gut lumen. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4170-4175.	7.1	176
23	A role for bacterial urease in gut dysbiosis and Crohn's disease. Science Translational Medicine, 2017, 9, .	12.4	171
24	Gut microbiota modulate dendritic cell antigen presentation and radiotherapy-induced antitumor immune response. Journal of Clinical Investigation, 2019, 130, 466-479.	8.2	159
25	Composition and dynamics of the respiratory tract microbiome in intubated patients. Microbiome, 2016, 4, 7.	11.1	148
26	Role of dietary fiber in the recovery of the human gut microbiome and its metabolome. Cell Host and Microbe, 2021, 29, 394-407.e5.	11.0	137
27	Sunbeam: an extensible pipeline for analyzing metagenomic sequencing experiments. Microbiome, 2019, 7, 46.	11.1	134
28	Improved characterization of medically relevant fungi in the human respiratory tract using next-generation sequencing. Genome Biology, 2014, 15, 487.	8.8	127
29	Antigen-presenting ILC3 regulate T cell-dependent IgA responses to colonic mucosal bacteria. Journal of Experimental Medicine, 2019, 216, 728-742.	8.5	113
30	A Randomized Trial Comparing the Specific Carbohydrate Diet to a Mediterranean Diet in Adults With Crohn's Disease. Gastroenterology, 2021, 161, 837-852.e9.	1.3	113
31	Gut microbiota modulates adoptive cell therapy via CD8 ⁺ dendritic cells and IL-12. JCI Insight, 2018, 3, .	5.0	111
32	Host mitochondria influence gut microbiome diversity: A role for ROS. Science Signaling, 2019, 12, .	3.6	106
33	Segmented Filamentous Bacteria Prevent and Cure Rotavirus Infection. Cell, 2019, 179, 644-658.e13.	28.9	106
34	FXR-Dependent Modulation of the Human Small Intestinal Microbiome by the Bile Acid Derivative Obeticholic Acid. Gastroenterology, 2018, 155, 1741-1752.e5.	1.3	82
35	INSPIRED: A Pipeline for Quantitative Analysis of Sites of New DNA Integration in Cellular Genomes. Molecular Therapy - Methods and Clinical Development, 2017, 4, 39-49.	4.1	81
36	Bidirectional interactions between indomethacin and the murine intestinal microbiota. ELife, 2015, 4, e08973.	6.0	80

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37	Protective major histocompatibility complex allele prevents type 1 diabetes by shaping the intestinal microbiota early in ontogeny. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9671-9676.	7.1	75
38	Signatures of COVID-19 Severity and Immune Response in the Respiratory Tract Microbiome. MBio, 2021, 12, e0177721.	4.1	74
39	Bacterial colonization reprograms the neonatal gut metabolome. Nature Microbiology, 2020, 5, 838-847.	13.3	70
40	Cervicovaginal Fungi and Bacteria Associated With Cervical Intraepithelial Neoplasia and High-Risk Human Papillomavirus Infections in a Hispanic Population. Frontiers in Microbiology, 2018, 9, 2533.	3.5	67
41	INSPIRED: Quantification and Visualization Tools for Analyzing Integration Site Distributions. Molecular Therapy - Methods and Clinical Development, 2017, 4, 17-26.	4.1	60
42	Microbial Lineages in Sarcoidosis. A Metagenomic Analysis Tailored for Lowâ€Microbial Content Samples. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 225-234.	5.6	59
43	Dynamics of the Stool Virome in Very Early-Onset Inflammatory Bowel Disease. Journal of Crohn's and Colitis, 2020, 14, 1600-1610.	1.3	54
44	Distinct cellular roles for PDCD10 define a gut-brain axis in cerebral cavernous malformation. Science Translational Medicine, 2019, 11, .	12.4	51
45	Lifestyle and the presence of helminths is associated with gut microbiome composition in Cameroonians. Genome Biology, 2020, 21, 122.	8.8	48
46	Alterations of the Subgingival Microbiota in Pediatric Crohn's Disease Studied Longitudinally in Discovery and Validation Cohorts. Inflammatory Bowel Diseases, 2015, 21, 2797-2805.	1.9	46
47	Multi-omic Analysis of the Interaction between Clostridioides difficile Infection and Pediatric Inflammatory Bowel Disease. Cell Host and Microbe, 2020, 28, 422-433.e7.	11.0	45
48	Establishing a mucosal gut microbial community in vitro using an artificial simulator. PLoS ONE, 2018, 13, e0197692.	2.5	44
49	Perturbations of the Gut Microbiome and Metabolome in Children with Calcium Oxalate Kidney Stone Disease. Journal of the American Society of Nephrology: JASN, 2020, 31, 1358-1369.	6.1	43
50	Host immunity modulates the efficacy of microbiota transplantation for treatment of Clostridioides difficile infection. Nature Communications, 2021, 12, 755.	12.8	40
51	Characterisation of the nasal microbiota in granulomatosis with polyangiitis. Annals of the Rheumatic Diseases, 2018, 77, 1448-1453.	0.9	37
52	Microbiota-dependent signals are required to sustain TLR-mediated immune responses. JCI Insight, 2019, 4, .	5.0	36
53	Impact of Steviol Glycosides and Erythritol on the Human and <i>Cebus apella</i> Gut Microbiome. Journal of Agricultural and Food Chemistry, 2020, 68, 13093-13101.	5.2	32
54	SARS-CoV-2â€specific T cells in unexposed adults display broad trafficking potential and cross-react with commensal antigens. Science Immunology, 2022, 7, .	11.9	31

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55	Allometry and Ecology of the Bilaterian Gut Microbiome. MBio, 2018, 9, .	4.1	29
56	Permissive microbiome characterizes human subjects with a neurovascular disease cavernous angioma. Nature Communications, 2020, 11, 2659.	12.8	27
57	The impact of environmental pH on the gut microbiota community structure and short chain fatty acid production. FEMS Microbiology Ecology, 2022, 98, .	2.7	26
58	Molecular analysis of bacterial contamination on stethoscopes in an intensive care unit. Infection Control and Hospital Epidemiology, 2019, 40, 171-177.	1.8	25
59	Sialylation and fucosylation modulate inflammasome-activating eIF2 Signaling and microbial translocation during HIV infection. Mucosal Immunology, 2020, 13, 753-766.	6.0	24
60	Polymicrobial Aggregates in Human Saliva Build the Oral Biofilm. MBio, 2022, 13, e0013122.	4.1	23
61	Upper Respiratory Dysbiosis with a Facultative-dominated Ecotype in Advanced Lung Disease and Dynamic Change after Lung Transplant. Annals of the American Thoracic Society, 2019, 16, 1383-1391.	3.2	16
62	Dietary Regulation of the Gut Microbiota Engineered by a Minimal Defined Bacterial Consortium. PLoS ONE, 2016, 11, e0155620.	2.5	16
63	Microbiome changes in young periodontitis patients treated with adjunctive metronidazole and amoxicillin. Journal of Periodontology, 2021, 92, 467-478.	3.4	15
64	Dynamic Changes in the Nasal Microbiome Associated With Disease Activity in Patients With Granulomatosis With Polyangiitis. Arthritis and Rheumatology, 2021, 73, 1703-1712.	5.6	14
65	Excess dietary fructose does not alter gut microbiota or permeability in humans: A pilot randomized controlled study. Journal of Clinical and Translational Science, 2021, 5, e143.	0.6	13
66	Dietary fiber-based regulation of bile salt hydrolase activity in the gut microbiota and its relevance to human disease. Gut Microbes, 2022, 14, .	9.8	12
67	Effect of topical swallowed steroids on the bacterial and fungal esophageal microbiota in eosinophilic esophagitis. Allergy: European Journal of Allergy and Clinical Immunology, 2021, 76, 1549-1552.	5.7	11
68	Gut Microbiome Changes Associated with Epithelial Barrier Damage and Systemic Inflammation during Antiretroviral Therapy of Chronic SIV Infection. Viruses, 2021, 13, 1567.	3.3	11
69	Understanding the Gut Microbiota in Pediatric Patients with Alopecia Areata and their Siblings: A Pilot Study. JID Innovations, 2021, 1, 100051.	2.4	11
70	Metabolic Analysis of Regionally Distinct Gut Microbial Communities Using an <i>In Vitro</i> Platform. Journal of Agricultural and Food Chemistry, 2020, 68, 13056-13067.	5.2	10
71	The Mucosally-Adherent Rectal Microbiota Contains Features Unique to Alcohol-Related Cirrhosis. Gut Microbes, 2021, 13, 1987781.	9.8	10
72	A Microbial Signature for Paediatric Perianal Crohn's Disease. Journal of Crohn's and Colitis, 2022, 16, 1281-1292.	1.3	8

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73	The Macronutrient Composition of Infant Formula Produces Differences in Gut Microbiota Maturation That Associate with Weight Gain Velocity and Weight Status. <i>Nutrients</i> , 2022, 14, 1241.	4.1	8
74	Impact of the repurposed drug thonzonium bromide on host oral-gut microbiomes. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 7.	6.4	7
75	Metagenomic assessment of the Cebus apella gut microbiota. <i>American Journal of Primatology</i> , 2019, 81, e23023.	1.7	6
76	Triclosan has a robust, yet reversible impact on human gut microbial composition in vitro. <i>PLoS ONE</i> , 2020, 15, e0234046.	2.5	6
77	Applying Advanced In Vitro Culturing Technology to Study the Human Gut Microbiota. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	5
78	Decreased Intestinal Microbiome Diversity in Pediatric Sepsis: A Conceptual Framework for Intestinal Dysbiosis to Influence Immunometabolic Function. , 2021, 3, e0360.		5
79	Insights into the skin microbiome of sickle cell disease leg ulcers. <i>Wound Repair and Regeneration</i> , 2021, 29, 801-809.	3.0	5
80	Investigating hospital Mycobacterium chelonae infection using whole genome sequencing and hybrid assembly. <i>PLoS ONE</i> , 2020, 15, e0236533.	2.5	5
81	Effects of prebiotics, probiotics, and synbiotics on the infant gut microbiota and other health outcomes: A systematic review. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 5620-5642.	10.3	4
82	Comparative analysis of the gut microbiota cultured in vitro using a single colon versus a 3-stage colon experimental design. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 3353-3367.	3.6	3
83	Gut Microbiome Profile After Pancreatectomy in Infants With Congenital Hyperinsulinism. <i>Pancreas</i> , 2021, 50, 89-92.	1.1	2
84	The impact of cyclooxygenase-2 selective and non-isoform selective NSAIDs on the gut microbiota. <i>FASEB Journal</i> , 2019, 33, 516.1.	0.5	2
85	Genome Sequence of a Segmented Filamentous Bacterium Strain That Confers a Rotavirus Resistance Phenotype in Mice. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	1
86	The Impact of Introducing Patient-Reported Inflammatory Bowel Disease Symptoms via Electronic Survey on Clinic Visit Length, Patient and Provider Satisfaction, and the Environment Microbiome. <i>Inflammatory Bowel Diseases</i> , 2021, 27, 746-750.	1.9	1
87	Sex-dependent compensatory mechanisms preserve blood pressure homeostasis in prostacyclin receptor-deficient mice. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	1
88	Pediatric Patients with Immune Thrombocytopenic Purpura Have a Dysbiotic Gut Microbiome at Time of Diagnosis. <i>Blood</i> , 2021, 138, 3169-3169.	1.4	1
89	4444 The effect of early life antibiotics on gut microbiome and fecal bile acid concentrations in children. <i>Journal of Clinical and Translational Science</i> , 2020, 4, 146-147.	0.6	0
90	Effects of Vancomycin on Persistent Pain-Stimulated and Pain-Depressed Behaviors in Female Fischer Rats With or Without Voluntary Access to Running Wheels. <i>Journal of Pain</i> , 2021, 22, 1530-1544.	1.4	0

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91	Dietary Patterns and Growth From 12 to 24 Months of Age in African American Infants. Current Developments in Nutrition, 2021, 5, 454.	0.3	0
92	Effects of gut microbiome modulation on alpha/beta diversity, persistent painâ€depressed behaviors and inflammation in female Fisher rats with or without voluntary access to running wheels. FASEB Journal, 2019, 33, 516.2.	0.5	0
93	Title is missing!., 2020, 15, e0236533.		0
94	Title is missing!., 2020, 15, e0236533.		0
95	Title is missing!., 2020, 15, e0236533.		0
96	Title is missing!., 2020, 15, e0236533.		0