

Justin L Sonnenburg

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94 papers	15,433 citations	47 h-index	112 g-index
112 ext. papers	20,097 ext. citations	22 avg, IF	7.03 L-index

#	Paper	IF	Citations
94	Host-bacterial mutualism in the human intestine. <i>Science</i> , 2005 , 307, 1915-20	33.3	3448
93	Diet-microbiota interactions as moderators of human metabolism. <i>Nature</i> , 2016 , 535, 56-64	50.4	1086
92	Diet-induced extinctions in the gut microbiota compound over generations. <i>Nature</i> , 2016 , 529, 212-5	50.4	890
91	Glycan foraging in vivo by an intestine-adapted bacterial symbiont. <i>Science</i> , 2005 , 307, 1955-9	33.3	803
90	Microbiota-liberated host sugars facilitate post-antibiotic expansion of enteric pathogens. <i>Nature</i> , 2013 , 502, 96-9	50.4	630
89	Gut microbes promote colonic serotonin production through an effect of short-chain fatty acids on enterochromaffin cells. <i>FASEB Journal</i> , 2015 , 29, 1395-403	0.9	538
88	Specificity of polysaccharide use in intestinal bacteroides species determines diet-induced microbiota alterations. <i>Cell</i> , 2010 , 141, 1241-52	56.2	450
87	A gut bacterial pathway metabolizes aromatic amino acids into nine circulating metabolites. <i>Nature</i> , 2017 , 551, 648-652	50.4	438
86	Starving our microbial self: the deleterious consequences of a diet deficient in microbiota-accessible carbohydrates. <i>Cell Metabolism</i> , 2014 , 20, 779-786	24.6	423
85	Seasonal cycling in the gut microbiome of the Hadza hunter-gatherers of Tanzania. <i>Science</i> , 2017 , 357, 802-806	33.3	423
84	Bacteroides in the infant gut consume milk oligosaccharides via mucus-utilization pathways. <i>Cell Host and Microbe</i> , 2011 , 10, 507-14	23.4	337
83	Eating for two: how metabolism establishes interspecies interactions in the gut. <i>Cell Host and Microbe</i> , 2011 , 10, 336-47	23.4	309
82	Getting a grip on things: how do communities of bacterial symbionts become established in our intestine?. <i>Nature Immunology</i> , 2004 , 5, 569-73	19.1	302
81	Genomic and metabolic studies of the impact of probiotics on a model gut symbiont and host. <i>PLoS Biology</i> , 2006 , 4, e413	9.7	299
80	Complex interactions among diet, gastrointestinal transit, and gut microbiota in humanized mice. <i>Gastroenterology</i> , 2013 , 144, 967-77	13.3	281
79	The Gut Microbiome: Connecting Spatial Organization to Function. <i>Cell Host and Microbe</i> , 2017 , 21, 433-442	23.4	274
78	Quantitative Imaging of Gut Microbiota Spatial Organization. <i>Cell Host and Microbe</i> , 2015 , 18, 478-88	23.4	242

77	A metabolomic view of how the human gut microbiota impacts the host metabolome using humanized and gnotobiotic mice. <i>ISME Journal</i> , 2013 , 7, 1933-43	11.9	222
76	Gut microbiota-produced succinate promotes <i>C. difficile</i> infection after antibiotic treatment or motility disturbance. <i>Cell Host and Microbe</i> , 2014 , 16, 770-7	23.4	209
75	A Gut Commensal-Produced Metabolite Mediates Colonization Resistance to Salmonella Infection. <i>Cell Host and Microbe</i> , 2018 , 24, 296-307.e7	23.4	193
74	Genetically dictated change in host mucus carbohydrate landscape exerts a diet-dependent effect on the gut microbiota. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 17059-64	11.5	180
73	Integrative analysis of the microbiome and metabolome of the human intestinal mucosal surface reveals exquisite inter-relationships. <i>Microbiome</i> , 2013 , 1, 17	16.6	175
72	An exclusive metabolic niche enables strain engraftment in the gut microbiota. <i>Nature</i> , 2018 , 557, 434-438.	38.4	157
71	Reprogramming of gut microbiome energy metabolism by the FUT2 Crohn's disease risk polymorphism. <i>ISME Journal</i> , 2014 , 8, 2193-206	11.9	140
70	The ancestral and industrialized gut microbiota and implications for human health. <i>Nature Reviews Microbiology</i> , 2019 , 17, 383-390	22.2	136
69	Gut Microbiota-Produced Tryptamine Activates an Epithelial G-Protein-Coupled Receptor to Increase Colonic Secretion. <i>Cell Host and Microbe</i> , 2018 , 23, 775-785.e5	23.4	136
68	Commensal Microbes and Hair Follicle Morphogenesis Coordinately Drive Treg Migration into Neonatal Skin. <i>Cell Host and Microbe</i> , 2017 , 21, 467-477.e5	23.4	130
67	Dysbiosis-Induced Secondary Bile Acid Deficiency Promotes Intestinal Inflammation. <i>Cell Host and Microbe</i> , 2020 , 27, 659-670.e5	23.4	128
66	Modulation of a Circulating Uremic Solute via Rational Genetic Manipulation of the Gut Microbiota. <i>Cell Host and Microbe</i> , 2016 , 20, 709-715	23.4	127
65	A refined palate: bacterial consumption of host glycans in the gut. <i>Glycobiology</i> , 2013 , 23, 1038-46	5.8	123
64	A hybrid two-component system protein of a prominent human gut symbiont couples glycan sensing in vivo to carbohydrate metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 8834-9	11.5	115
63	Microbiota-accessible carbohydrates suppress <i>Clostridium difficile</i> infection in a murine model. <i>Nature Microbiology</i> , 2018 , 3, 662-669	26.6	105
62	Tunable Expression Tools Enable Single-Cell Strain Distinction in the Gut Microbiome. <i>Cell</i> , 2017 , 169, 538-546.e12	56.2	101
61	A small-molecule antivirulence agent for treating <i>Clostridium difficile</i> infection. <i>Science Translational Medicine</i> , 2015 , 7, 306ra148	17.5	99
60	Small intestinal microbial dysbiosis underlies symptoms associated with functional gastrointestinal disorders. <i>Nature Communications</i> , 2019 , 10, 2012	17.4	88

59	Gut-microbiota-targeted diets modulate human immune status. <i>Cell</i> , 2021 , 184, 4137-4153.e14	56.2	86
58	Vulnerability of the industrialized microbiota. <i>Science</i> , 2019 , 366,	33.3	83
57	uses amino acids associated with gut microbial dysbiosis in a subset of patients with diarrhea. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	73
56	Gut microbiome transition across a lifestyle gradient in Himalaya. <i>PLoS Biology</i> , 2018 , 16, e2005396	9.7	71
55	Links between environment, diet, and the hunter-gatherer microbiome. <i>Gut Microbes</i> , 2019 , 10, 216-227.8		66
54	Community health care: therapeutic opportunities in the human microbiome. <i>Science Translational Medicine</i> , 2011 , 3, 78ps12	17.5	64
53	Host-Microbiota Interactions in the Pathogenesis of Antibiotic-Associated Diseases. <i>Cell Reports</i> , 2016 , 14, 1049-1061	10.6	63
52	Longitudinal Multi-omics Reveals Subset-Specific Mechanisms Underlying Irritable Bowel Syndrome. <i>Cell</i> , 2020 , 182, 1460-1473.e17	56.2	63
51	A randomized crossover trial on the effect of plant-based compared with animal-based meat on trimethylamine-N-oxide and cardiovascular disease risk factors in generally healthy adults: Study With Appetizing Plantfood-Meat Eating Alternative Trial (SWAP-MEAT). <i>American Journal of Clinical Nutrition</i> , 2020 , 112, 1188-1199	7	55
50	Pursuing Human-Relevant Gut Microbiota-Immune Interactions. <i>Immunity</i> , 2019 , 51, 225-239	32.3	54
49	Molecular analysis of model gut microbiotas by imaging mass spectrometry and nanodesorption electrospray ionization reveals dietary metabolite transformations. <i>Analytical Chemistry</i> , 2012 , 84, 9259-67	7.8	50
48	A Metabolic Pathway for Activation of Dietary Glucosinolates by a Human Gut Symbiont. <i>Cell</i> , 2020 , 180, 717-728.e19	56.2	48
47	Proximal colon-derived O-glycosylated mucus encapsulates and modulates the microbiota. <i>Science</i> , 2020 , 370, 467-472	33.3	47
46	Prioritization of a plant polysaccharide over a mucus carbohydrate is enforced by a Bacteroides hybrid two-component system. <i>Molecular Microbiology</i> , 2012 , 85, 478-91	4.1	46
45	Long-term dietary intervention reveals resilience of the gut microbiota despite changes in diet and weight. <i>American Journal of Clinical Nutrition</i> , 2020 , 111, 1127-1136	7	43
44	Host-centric proteomics of stool: a novel strategy focused on intestinal responses to the gut microbiota. <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 3310-8	7.6	42
43	Depletion of microbiome-derived molecules in the host using genetics. <i>Science</i> , 2019 , 366,	33.3	42
42	Phase-variable capsular polysaccharides and lipoproteins modify bacteriophage susceptibility in Bacteroides thetaiotaomicron. <i>Nature Microbiology</i> , 2020 , 5, 1170-1181	26.6	39

41	Dynamic Light Scattering Microrheology Reveals Multiscale Viscoelasticity of Polymer Gels and Precious Biological Materials. <i>ACS Central Science</i> , 2017 , 3, 1294-1303	16.8	39
40	alters the gut microbiota and modulates the functional metabolism of T regulatory cells in the context of immune checkpoint blockade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 27509-27515	11.5	39
39	Western diet regulates immune status and the response to LPS-driven sepsis independent of diet-associated microbiome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3688-3694	11.5	38
38	Role for diet in normal gut barrier function: developing guidance within the framework of food-labeling regulations. <i>American Journal of Physiology - Renal Physiology</i> , 2019 , 317, G17-G39	5.1	37
37	A metabolomics pipeline for the mechanistic interrogation of the gut microbiome. <i>Nature</i> , 2021 , 595, 415-420	50.4	32
36	Individualized Responses of Gut Microbiota to Dietary Intervention Modeled in Humanized Mice. <i>MSystems</i> , 2016 , 1,	7.6	31
35	Mechanistic insight into polysaccharide use within the intestinal microbiota. <i>Gut Microbes</i> , 2011 , 2, 86-90	8.8	31
34	Monitoring host responses to the gut microbiota. <i>ISME Journal</i> , 2015 , 9, 1908-15	11.9	30
33	The Enteric Two-Step: nutritional strategies of bacterial pathogens within the gut. <i>Cellular Microbiology</i> , 2014 , 16, 993-1003	3.9	27
32	The emerging metabolic view of <i>Clostridium difficile</i> pathogenesis. <i>Current Opinion in Microbiology</i> , 2017 , 35, 42-47	7.9	26
31	<i>Bacteroides thetaiotaomicron</i> -Infecting Bacteriophage Isolates Inform Sequence-Based Host Range Predictions. <i>Cell Host and Microbe</i> , 2020 , 28, 371-379.e5	23.4	25
30	<i>Klebsiella michiganensis</i> transmission enhances resistance to Enterobacteriaceae gut invasion by nutrition competition. <i>Nature Microbiology</i> , 2020 , 5, 630-641	26.6	25
29	Metabolome progression during early gut microbial colonization of gnotobiotic mice. <i>Scientific Reports</i> , 2015 , 5, 11589	4.9	24
28	The effect of microbial colonization on the host proteome varies by gastrointestinal location. <i>ISME Journal</i> , 2016 , 10, 1170-81	11.9	21
27	Genetic Variation of the SusC/SusD Homologs from a Polysaccharide Utilization Locus Underlies Divergent Fructan Specificities and Functional Adaptation in Strains. <i>MSphere</i> , 2018 , 3,	5	20
26	Reporting guidelines for human microbiome research: the STORMS checklist. <i>Nature Medicine</i> , 2021 , 27, 1885-1892	50.5	19
25	Intestinal IgA Regulates Expression of a Fructan Polysaccharide Utilization Locus in Colonizing Gut Commensal <i>Bacteroides thetaiotaomicron</i> . <i>MBio</i> , 2019 , 10,	7.8	17
24	Mucin-derived O-glycans supplemented to diet mitigate diverse microbiota perturbations. <i>ISME Journal</i> , 2021 , 15, 577-591	11.9	16

23	Competitively Selected Donor Fecal Microbiota Transplantation: Butyrate Concentration and Diversity as Measures of Donor Quality. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2018 , 67, 185-187	2.8	15
22	<i>C. difficile</i> exploits a host metabolite produced during toxin-mediated disease. <i>Nature</i> , 2021 , 593, 261-265	50.4	11
21	The Clinical Drug Ebselen Attenuates Inflammation and Promotes Microbiome Recovery in Mice after Antibiotic Treatment for CDI. <i>Cell Reports Medicine</i> , 2020 , 1,	18	10
20	Bacterially Derived Tryptamine Increases Mucus Release by Activating a Host Receptor in a Mouse Model of Inflammatory Bowel Disease. <i>iScience</i> , 2020 , 23, 101798	6.1	8
19	Correlated gene expression encoding serotonin (5-HT) receptor 4 and 5-HT transporter in proximal colonic segments of mice across different colonization states and sexes. <i>Neurogastroenterology and Motility</i> , 2016 , 28, 1443-8	4	8
18	High-Throughput Stool Metaproteomics: Method and Application to Human Specimens. <i>MSystems</i> , 2020 , 5,	7.6	7
17	In Vivo Wireless Sensors for Gut Microbiome Redox Monitoring. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 1821-1830	5	6
16	Gut microbes take their vitamins. <i>Cell Host and Microbe</i> , 2014 , 15, 5-6	23.4	6
15	Gut Microbiota-Targeted Diets Modulate Human Immune Status		6
14	Nutrition: A personal forecast. <i>Nature</i> , 2015 , 528, 484-6	50.4	4
13	Establishment and characterization of stable, diverse, fecal-derived in vitro microbial communities that model the intestinal microbiota.. <i>Cell Host and Microbe</i> , 2022 ,	23.4	4
12	Global, distinctive, and personal changes in molecular and microbial profiles by specific fibers in humans.. <i>Cell Host and Microbe</i> , 2022 ,	23.4	4
11	Depletion of microbiome-derived molecules in the host using Clostridium genetics		3
10	When Gut Microbiota Creep into Fat, the Fat Creeps Back. <i>Cell</i> , 2020 , 183, 589-591	56.2	3
9	A Microbiota Assimilation. <i>Cell Metabolism</i> , 2018 , 28, 675-677	24.6	3
8	Links between environment, diet, and the hunter-gatherer microbiome		2
7	Your gut microbiome, deconstructed. <i>Nature Biotechnology</i> , 2015 , 33, 1238-1240	44.5	1
6	Symbiosis research, technology, and education: Proceedings of the 6th International Symbiosis Society Congress held in Madison Wisconsin, USA, August 2009. <i>Symbiosis</i> , 2010 , 51, 1-12	3	1

5	Recovery of the Gut Microbiota after Antibiotics Depends on Host Diet and Environmental Reservoirs. <i>SSRN Electronic Journal</i> ,	1	1
4	Electron transfer proteins in gut bacteria yield metabolites that circulate in the host		1
3	Recovery of the gut microbiota after antibiotics depends on host diet and environmental reservoirs		1
2	A metabolomics pipeline enables mechanistic interrogation of the gut microbiome		1
1	Quantifying rapid bacterial evolution and transmission within the mouse intestine. <i>Cell Host and Microbe</i> , 2021 , 29, 1454-1468.e4	23.4	0