Almut Heinken

List of Publications by Year
in descending order

25	5,577	361296 20	580701 25
papers	citations	h-index	g-index

29	29	29	7089
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gut microbiota functions: metabolism of nutrients and other food components. European Journal of Nutrition, 2018, 57, 1-24.	1.8	1,608
2	Creation and analysis of biochemical constraint-based models using the COBRA Toolbox v.3.0. Nature Protocols, 2019, 14, 639-702.	5.5	833
3	Generation of genome-scale metabolic reconstructions for 773 members of the human gut microbiota. Nature Biotechnology, 2017, 35, 81-89.	9.4	629
4	Recon3D enables a three-dimensional view of gene variation in human metabolism. Nature Biotechnology, 2018, 36, 272-281.	9.4	520
5	The Virtual Metabolic Human database: integrating human and gut microbiome metabolism with nutrition and disease. Nucleic Acids Research, 2019, 47, D614-D624.	6.5	257
6	Systematic assessment of secondary bile acid metabolism in gut microbes reveals distinct metabolic capabilities in inflammatory bowel disease. Microbiome, 2019, 7, 75.	4.9	215
7	Systems-level characterization of a host-microbe metabolic symbiosis in the mammalian gut. Gut Microbes, 2013, 4, 28-40.	4.3	210
8	Functional Metabolic Map of Faecalibacterium prausnitzii, a Beneficial Human Gut Microbe. Journal of Bacteriology, 2014, 196, 3289-3302.	1.0	173
9	Personalized wholeâ€body models integrate metabolism, physiology, and the gut microbiome. Molecular Systems Biology, 2020, 16, e8982.	3.2	122
10	Integrated Analyses of Microbiome and Longitudinal Metabolome Data Reveal Microbial-Host Interactions on Sulfur Metabolism in Parkinsonâ€™s Disease. Cell Reports, 2019, 29, 1767-1777.e8.	2.9	102
11	The Microbiome Modeling Toolbox: from microbial interactions to personalized microbial communities. Bioinformatics, 2019, 35, 2332-2334.	1.8	102
12	Metabolic Network Analysis Reveals Altered Bile Acid Synthesis and Metabolism in Alzheimerâ€™s Disease. Cell Reports Medicine, 2020, 1, 100138.	3.3	102
13	Anoxic Conditions Promote Species-Specific Mutualism between Gut Microbes In Silico. Applied and Environmental Microbiology, 2015, 81, 4049-4061.	1.4	101
14	A systems biology approach to studying the role of microbes in human health. Current Opinion in Biotechnology, 2013, 24, 4-12.	3.3	100
15	Systematic prediction of health-relevant human-microbial co-metabolism through a computational framework. Gut Microbes, 2015, 6, 120-130.	4.3	97
16	The gut microbial metabolite formate exacerbates colorectal cancer progression. Nature Metabolism, 2022, 4, 458-475.	5.1	97
17	Systems biology of hostâ€“microbe metabolomics. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2015, 7, 195-219.	6.6	80
18	Metabolic modelling reveals broad changes in gut microbial metabolism in inflammatory bowel disease patients with dysbiosis. Npj Systems Biology and Applications, 2021, 7, 19.	1.4	43

#	Article	IF	Citations
19	Quantitative systems pharmacology and the personalized drugâ€“microbiotaâ€“diet axis. Current Opinion in Systems Biology, 2017, 4, 43-52.	1.3	37
20	Genome-Scale Metabolic Modeling of the Human Microbiome in the Era of Personalized Medicine. Annual Review of Microbiology, 2021, 75, 199-222.	2.9	33
21	Advances in constraint-based modelling of microbial communities. Current Opinion in Systems Biology, 2021, 27, 100346.	1.3	28
22	Integration of constraint-based modeling with fecal metabolomics reveals large deleterious effects of Fusobacterium spp. on community butyrate production. Gut Microbes, 2021, 13, 1-23.	4.3	22
23	Microbiome Modelling Toolbox 2.0: efficient, tractable modelling of microbiome communities. Bioinformatics, 2022, 38, 2367-2368.	1.8	18
24	DEMETER: efficient simultaneous curation of genome-scale reconstructions guided by experimental data and refined gene annotations. Bioinformatics, 2021, 37, 3974-3975.	1.8	13
25	NMR Metabolomics Reveal Urine Markers of Microbiome Diversity and Identify Benzoate Metabolism as a Mediator between High Microbial Alpha Diversity and Metabolic Health. Metabolites, 2022, 12, 308.	1.3	11