

Almut Heinken

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

5,577
citations

361296

20
h-index

580701

25
g-index

29
all docs

29
docs citations

29
times ranked

7089
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbiome Modelling Toolbox 2.0: efficient, tractable modelling of microbiome communities. <i>Bioinformatics</i> , 2022, 38, 2367-2368.	1.8	18
2	NMR Metabolomics Reveal Urine Markers of Microbiome Diversity and Identify Benzoate Metabolism as a Mediator between High Microbial Alpha Diversity and Metabolic Health. <i>Metabolites</i> , 2022, 12, 308.	1.3	11
3	The gut microbial metabolite formate exacerbates colorectal cancer progression. <i>Nature Metabolism</i> , 2022, 4, 458-475.	5.1	97
4	Integration of constraint-based modeling with fecal metabolomics reveals large deleterious effects of <i>Fusobacterium</i> spp. on community butyrate production. <i>Gut Microbes</i> , 2021, 13, 1-23.	4.3	22
5	Metabolic modelling reveals broad changes in gut microbial metabolism in inflammatory bowel disease patients with dysbiosis. <i>Npj Systems Biology and Applications</i> , 2021, 7, 19.	1.4	43
6	Genome-Scale Metabolic Modeling of the Human Microbiome in the Era of Personalized Medicine. <i>Annual Review of Microbiology</i> , 2021, 75, 199-222.	2.9	33
7	DEMETER: efficient simultaneous curation of genome-scale reconstructions guided by experimental data and refined gene annotations. <i>Bioinformatics</i> , 2021, 37, 3974-3975.	1.8	13
8	Advances in constraint-based modelling of microbial communities. <i>Current Opinion in Systems Biology</i> , 2021, 27, 100346.	1.3	28
9	Metabolic Network Analysis Reveals Altered Bile Acid Synthesis and Metabolism in Alzheimer's Disease. <i>Cell Reports Medicine</i> , 2020, 1, 100138.	3.3	102
10	Personalized whole-body models integrate metabolism, physiology, and the gut microbiome. <i>Molecular Systems Biology</i> , 2020, 16, e8982.	3.2	122
11	Integrated Analyses of Microbiome and Longitudinal Metabolome Data Reveal Microbial-Host Interactions on Sulfur Metabolism in Parkinson's Disease. <i>Cell Reports</i> , 2019, 29, 1767-1777.e8.	2.9	102
12	Systematic assessment of secondary bile acid metabolism in gut microbes reveals distinct metabolic capabilities in inflammatory bowel disease. <i>Microbiome</i> , 2019, 7, 75.	4.9	215
13	Creation and analysis of biochemical constraint-based models using the COBRA Toolbox v.3.0. <i>Nature Protocols</i> , 2019, 14, 639-702.	5.5	833
14	The Virtual Metabolic Human database: integrating human and gut microbiome metabolism with nutrition and disease. <i>Nucleic Acids Research</i> , 2019, 47, D614-D624.	6.5	257
15	The Microbiome Modeling Toolbox: from microbial interactions to personalized microbial communities. <i>Bioinformatics</i> , 2019, 35, 2332-2334.	1.8	102
16	Recon3D enables a three-dimensional view of gene variation in human metabolism. <i>Nature Biotechnology</i> , 2018, 36, 272-281.	9.4	520
17	Gut microbiota functions: metabolism of nutrients and other food components. <i>European Journal of Nutrition</i> , 2018, 57, 1-24.	1.8	1,608
18	Quantitative systems pharmacology and the personalized drug-microbiota-diet axis. <i>Current Opinion in Systems Biology</i> , 2017, 4, 43-52.	1.3	37

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19	Generation of genome-scale metabolic reconstructions for 773 members of the human gut microbiota. <i>Nature Biotechnology</i> , 2017, 35, 81-89.	9.4	629
20	Systems biology of host-microbe metabolomics. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2015, 7, 195-219.	6.6	80
21	Anoxic Conditions Promote Species-Specific Mutualism between Gut Microbes <i>In Silico</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 4049-4061.	1.4	101
22	Systematic prediction of health-relevant human-microbial co-metabolism through a computational framework. <i>Gut Microbes</i> , 2015, 6, 120-130.	4.3	97
23	Functional Metabolic Map of <i>Faecalibacterium prausnitzii</i> , a Beneficial Human Gut Microbe. <i>Journal of Bacteriology</i> , 2014, 196, 3289-3302.	1.0	173
24	A systems biology approach to studying the role of microbes in human health. <i>Current Opinion in Biotechnology</i> , 2013, 24, 4-12.	3.3	100
25	Systems-level characterization of a host-microbe metabolic symbiosis in the mammalian gut. <i>Gut Microbes</i> , 2013, 4, 28-40.	4.3	210