

Tommi Vatanen

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

10,821
citations

201674

27
h-index

243625

44
g-index

52
all docs

52
docs citations

52
times ranked

14593
citing authors

#	ARTICLE	IF	CITATIONS
1	Population-based metagenomics analysis reveals markers for gut microbiome composition and diversity. <i>Science</i> , 2016, 352, 565-569.	12.6	1,398
2	Temporal development of the gut microbiome in early childhood from the TEDDY study. <i>Nature</i> , 2018, 562, 583-588.	27.8	1,220
3	Gut microbiome structure and metabolic activity in inflammatory bowel disease. <i>Nature Microbiology</i> , 2019, 4, 293-305.	13.3	1,094
4	The Dynamics of the Human Infant Gut Microbiome in Development and in Progression toward Type 1 Diabetes. <i>Cell Host and Microbe</i> , 2015, 17, 260-273.	11.0	1,008
5	Variation in Microbiome LPS Immunogenicity Contributes to Autoimmunity in Humans. <i>Cell</i> , 2016, 165, 842-853.	28.9	968
6	Natural history of the infant gut microbiome and impact of antibiotic treatment on bacterial strain diversity and stability. <i>Science Translational Medicine</i> , 2016, 8, 343ra81.	12.4	763
7	The effect of host genetics on the gut microbiome. <i>Nature Genetics</i> , 2016, 48, 1407-1412.	21.4	672
8	The human gut microbiome in early-onset type 1 diabetes from the TEDDY study. <i>Nature</i> , 2018, 562, 589-594.	27.8	623
9	A novel <i>Ruminococcus gnavus</i> clade enriched in inflammatory bowel disease patients. <i>Genome Medicine</i> , 2017, 9, 103.	8.2	478
10	Structure-based protein function prediction using graph convolutional networks. <i>Nature Communications</i> , 2021, 12, 3168.	12.8	300
11	The Super-Donor Phenomenon in Fecal Microbiota Transplantation. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 2.	3.9	262
12	Intestinal virome changes precede autoimmunity in type 1 diabetes-susceptible children. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6166-E6175.	7.1	227
13	Dysbiosis, inflammation, and response to treatment: a longitudinal study of pediatric subjects with newly diagnosed inflammatory bowel disease. <i>Genome Medicine</i> , 2016, 8, 75.	8.2	211
14	The influence of a short-term gluten-free diet on the human gut microbiome. <i>Genome Medicine</i> , 2016, 8, 45.	8.2	198
15	Increased Intestinal Microbial Diversity Following Fecal Microbiota Transplant for Active Crohn's Disease. <i>Inflammatory Bowel Diseases</i> , 2016, 22, 2182-2190.	1.9	175
16	Genomic variation and strain-specific functional adaptation in the human gut microbiome during early life. <i>Nature Microbiology</i> , 2019, 4, 470-479.	13.3	164
17	Experimental design and quantitative analysis of microbial community multiomics. <i>Genome Biology</i> , 2017, 18, 228.	8.8	143
18	Self-organization and missing values in SOM and GTM. <i>Neurocomputing</i> , 2015, 147, 60-70.	5.9	84

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19	High-throughput automated microfluidic sample preparation for accurate microbial genomics. <i>Nature Communications</i> , 2017, 8, 13919.	12.8	81
20	Effects of Fecal Microbiome Transfer in Adolescents With Obesity. <i>JAMA Network Open</i> , 2020, 3, e2030415.	5.9	76
21	An additive Gaussian process regression model for interpretable non-parametric analysis of longitudinal data. <i>Nature Communications</i> , 2019, 10, 1798.	12.8	68
22	Oral administration of maternal vaginal microbes at birth to restore gut microbiome development in infants born by caesarean section: A pilot randomised placebo-controlled trial. <i>EBioMedicine</i> , 2021, 69, 103443.	6.1	58
23	Strain engraftment competition and functional augmentation in a multi-donor fecal microbiota transplantation trial for obesity. <i>Microbiome</i> , 2021, 9, 107.	11.1	55
24	Linking Strain Engraftment in Fecal Microbiota Transplantation With Maintenance of Remission in Crohn's Disease. <i>Gastroenterology</i> , 2020, 159, 2193-2202.e5.	1.3	41
25	Randomised Double-Blind Placebo-Controlled Trial of Inulin with Metronidazole in Non-Alcoholic Fatty Liver Disease (NAFLD). <i>Nutrients</i> , 2020, 12, 937.	4.1	35
26	Phages in the Gut Ecosystem. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 822562.	3.9	30
27	Semi-supervised anomaly detection " towards model-independent searches of new physics. <i>Journal of Physics: Conference Series</i> , 2012, 368, 012032.	0.4	20
28	Pushing Stochastic Gradient towards Second-Order Methods " Backpropagation Learning with Transformations in Nonlinearities. <i>Lecture Notes in Computer Science</i> , 2013, , 442-449.	1.3	18
29	Protocol for the Gut Bugs Trial: a randomised double-blind placebo-controlled trial of gut microbiome transfer for the treatment of obesity in adolescents. <i>BMJ Open</i> , 2019, 9, e026174.	1.9	16
30	Semi-supervised detection of collective anomalies with an application in high energy particle physics. , 2012, , .		10
31	High prevalence of undiagnosed comorbidities among adolescents with obesity. <i>Scientific Reports</i> , 2020, 10, 20101.	3.3	10
32	Factors Associated With the Microbiome in Moderate "Late Preterm Babies: A Cohort Study From the DIAMOND Randomized Controlled Trial. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 595323.	3.9	10
33	Differences in Compositions of Gut Bacterial Populations and Bacteriophages in "11 Year-Olds Born Preterm Compared to Full Term. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 276.	3.9	9
34	The microbial biogeography of the gastrointestinal tract of preterm and term lambs. <i>Scientific Reports</i> , 2020, 10, 9113.	3.3	8
35	The Dynamics of the Human Infant Gut Microbiome in Development and in Progression toward Type 1 Diabetes. <i>Cell Host and Microbe</i> , 2016, 20, 121.	11.0	7
36	Bayesian mixed effects models for zero-inflated compositions in microbiome data analysis. <i>Annals of Applied Statistics</i> , 2020, 14, .	1.1	7

#	ARTICLE	IF	CITATIONS
37	Transcription shifts in gut bacteria shared between mothers and their infants. Scientific Reports, 2022, 12, 1276.	3.3	7
38	Paths of Wellbeing on Self-Organizing Maps. Advances in Intelligent Systems and Computing, 2013, , 345-352.	0.6	4
39	Controlling Self-Organization and Handling Missing Values in SOM and GTM. Advances in Intelligent Systems and Computing, 2013, , 55-64.	0.6	3
40	Desacetyl-Î±-MSH and Î±-MSH have sex specific interactions with diet to influence mouse gut morphology, metabolites and microbiota. Scientific Reports, 2020, 10, 18957.	3.3	3
41	Effect of prophylactic dextrose gel on the neonatal gut microbiome. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2022, 107, 501-507.	2.8	3
42	Higher circulating EGF levels associate with a decreased risk of IgE sensitization in young children. Pediatric Allergy and Immunology, 2021, , .	2.6	1
43	Soft Classification of Diffractive Interactions at the LHC. , 2011, , .		0