

# Vanni Bucci

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

5,402  
citations

257101

24  
h-index

233125

45  
g-index

59  
all docs

59  
docs citations

59  
times ranked

8126  
citing authors

#	ARTICLE	IF	CITATIONS
1	Precision microbiome reconstitution restores bile acid mediated resistance to <i>Clostridium difficile</i> . <i>Nature</i> , 2015, 517, 205-208.	13.7	1,506
2	A defined commensal consortium elicits CD8 T cells and anti-cancer immunity. <i>Nature</i> , 2019, 565, 600-605.	13.7	741
3	Ecological Modeling from Time-Series Inference: Insight into Dynamics and Stability of Intestinal Microbiota. <i>PLoS Computational Biology</i> , 2013, 9, e1003388.	1.5	487
4	Intestinal Microbiota Containing <i>Barnesiella</i> Species Cures Vancomycin-Resistant <i>Enterococcus faecium</i> Colonization. <i>Infection and Immunity</i> , 2013, 81, 965-973.	1.0	391
5	Alzheimer's Disease Microbiome Is Associated with Dysregulation of the Anti-Inflammatory P-Glycoprotein Pathway. <i>MBio</i> , 2019, 10, .	1.8	269
6	MDSINE: Microbial Dynamical Systems INference Engine for microbiome time-series analyses. <i>Genome Biology</i> , 2016, 17, 121.	3.8	209
7	Antibiotic treatment for Tuberculosis induces a profound dysbiosis of the microbiome that persists long after therapy is completed. <i>Scientific Reports</i> , 2017, 7, 10767.	1.6	148
8	A bunch of tiny individuals" Individual-based modeling for microbes. <i>Ecological Modelling</i> , 2009, 220, 8-22.	1.2	139
9	Emergence of spatial structure in the tumor microenvironment due to the Warburg effect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19402-19407.	3.3	122
10	Phage mobility is a core determinant of phage-bacteria coexistence in biofilms. <i>ISME Journal</i> , 2018, 12, 532-543.	4.4	120
11	Cutting through the complexity of cell collectives. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20122770.	1.2	111
12	Extrathymically Generated Regulatory T Cells Establish a Niche for Intestinal Border-Dwelling Bacteria and Affect Physiologic Metabolite Balance. <i>Immunity</i> , 2018, 48, 1245-1257.e9.	6.6	100
13	Towards Predictive Models of the Human Gut Microbiome. <i>Journal of Molecular Biology</i> , 2014, 426, 3907-3916.	2.0	99
14	Inflammation-type dysbiosis of the oral microbiome associates with the duration of COVID-19 symptoms and long COVID. <i>JCI Insight</i> , 2021, 6, .	2.3	92
15	The Evolution of Bacteriocin Production in Bacterial Biofilms. <i>American Naturalist</i> , 2011, 178, E162-E173.	1.0	87
16	Engineered Probiotic for the Inhibition of <i>Salmonella</i> via Tetrathionate-Induced Production of Microcin H47. <i>ACS Infectious Diseases</i> , 2018, 4, 39-45.	1.8	87
17	The nursing home elder microbiome stability and associations with age, frailty, nutrition and physical location. <i>Journal of Medical Microbiology</i> , 2018, 67, 40-51.	0.7	69
18	Computer-guided design of optimal microbial consortia for immune system modulation. <i>ELife</i> , 2018, 7, .	2.8	65

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19	Mucosal-associated invariant and $\hat{\beta}$ T cell subsets respond to initial Mycobacterium tuberculosis infection. JCI Insight, 2018, 3, .	2.3	59
20	Social Interaction, Noise and Antibiotic-Mediated Switches in the Intestinal Microbiota. PLoS Computational Biology, 2012, 8, e1002497.	1.5	53
21	Biofilm Structure Promotes Coexistence of Phage-Resistant and Phage-Susceptible Bacteria. MSystems, 2020, 5, .	1.7	52
22	Colonization of the live biotherapeutic product VE303 and modulation of the microbiota and metabolites in healthy volunteers. Cell Host and Microbe, 2022, 30, 583-598.e8.	5.1	51
23	Gut Colonization Preceding Mucosal Barrier Injury Bloodstream Infection in Pediatric Hematopoietic Stem Cell Transplantation Recipients. Biology of Blood and Marrow Transplantation, 2019, 25, 2274-2280.	2.0	36
24	Heterogeneity of Intracellular Polymer Storage States in Enhanced Biological Phosphorus Removal (EBPR) – Observation and Modeling. Environmental Science & Technology, 2012, 46, 3244-3252.	4.6	32
25	Anaerobic Antibiotics and the Risk of Graft-versus-Host Disease after Allogeneic Hematopoietic Stem Cell Transplantation. Biology of Blood and Marrow Transplantation, 2020, 26, 2053-2060.	2.0	30
26	Dietary manipulation of the gut microbiome in inflammatory bowel disease patients: Pilot study. Gut Microbes, 2022, 14, 2046244.	4.3	29
27	Gastrointestinal microbiota composition predicts peripheral inflammatory state during treatment of human tuberculosis. Nature Communications, 2021, 12, 1141.	5.8	28
28	Microcin H47: A Class IIb Microcin with Potent Activity Against Multidrug Resistant <i>Enterobacteriaceae</i> . ACS Infectious Diseases, 2020, 6, 672-679.	1.8	27
29	Microscale patchiness leads to large and important intraspecific internal nutrient heterogeneity in phytoplankton. Aquatic Ecology, 2012, 46, 101-118.	0.7	26
30	Proanthocyanidin-enriched cranberry extract induces resilient bacterial community dynamics in a gnotobiotic mouse model. Microbial Cell, 2021, 8, 131-142.	1.4	12
31	Population Dynamics of Escherichia coli in Surface Water1. Journal of the American Water Resources Association, 2011, 47, 611-619.	1.0	11
32	Is the whole the sum of its parts? Agent-based modelling of wastewater treatment systems. Water Science and Technology, 2011, 63, 1590-1598.	1.2	10
33	Treatment of bacterial skin infections in ED observation units: factors influencing prescribing practice. American Journal of Emergency Medicine, 2015, 33, 1780-1785.	0.7	10
34	The high prevalence of <i>Clostridioides difficile</i> among nursing home elders associates with a dysbiotic microbiome. Gut Microbes, 2021, 13, 1-15.	4.3	10
35	Male aggression varies with consortship rate and habitat in a dolphin social network. Behavioral Ecology and Sociobiology, 2019, 73, 1.	0.6	9
36	Modeling Adaptive Mutation of Enteric Bacteria in Surface Water Using Agent-Based Methods. Water, Air, and Soil Pollution, 2012, 223, 2035-2049.	1.1	8

#	ARTICLE	IF	CITATIONS
37	The Nursing Home Older Adult Gut Microbiome Composition Shows Time-dependent Dysbiosis and Is Influenced by Medication Exposures, Age, Environment, and Frailty. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 1930-1938.	1.7	7
38	High-dimensional Causal Mediation Analysis with a Large Number of Mediators Clumping at Zero to Assess the Contribution of the Microbiome to the Risk of Bacterial Pathogen Colonization in Older Adults. <i>Current Bioinformatics</i> , 2020, 15, 671-696.	0.7	7
39	Draft Genome Sequences of <i>Pseudomonas fluorescens</i> Strains SF39a and SF4c, Potential Plant Growth Promotion and Biocontrol Agents. <i>Genome Announcements</i> , 2015, 3, .	0.8	6
40	Antibiotic-associated diarrhoea in emergency department observation unit patients. <i>Epidemiology and Infection</i> , 2016, 144, 2176-2183.	1.0	5
41	The Urinary Microbiome of Older Adults Residing in a Nursing Home Varies with Duration of Residence and Shows Increases in Potential Pathogens. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, , .	1.7	4
42	Anatomy of an urban waterbody: A case study of Boston's Muddy River. <i>Environmental Pollution</i> , 2011, 159, 1996-2002.	3.7	3
43	Fresh Ideas Bloom in Gut Healthcare to Cross-Fertilize Lake Management. <i>Environmental Science &amp; Technology</i> , 2019, 53, 14099-14112.	4.6	2
44	Draft Genome Sequence of <i>Halomonas</i> sp. Strain SL1, a Putative Polyhydroxyalkanoate-Producing Halophile. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.3	1
45	Editorial: Statistical and Computational Methods for Microbiome Multi-Omics Data. <i>Frontiers in Genetics</i> , 2020, 11, 927.	1.1	1
46	P073 DIET AS A MICROBIOME-CENTERED THERAPY FOR IBD. <i>Gastroenterology</i> , 2020, 158, S57-S58.	0.6	1