

# Thomas M Schmidt

## List of Publications by Citations

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110  
papers

24,743  
citations

56  
h-index

118  
g-index

118  
ext. papers

29,732  
ext. citations

10.5  
avg, IF

8  
L-index

#	Paper	IF	Citations
110	Structure, function and diversity of the healthy human microbiome. <i>Nature</i> , <b>2012</b> , 486, 207-14	50.4	6938
109	A framework for human microbiome research. <i>Nature</i> , <b>2012</b> , 486, 215-21	50.4	1722
108	The Ribosomal Database Project (RDP-II): previewing a new autoaligner that allows regular updates and the new prokaryotic taxonomy. <i>Nucleic Acids Research</i> , <b>2003</b> , 31, 442-3	20.1	1089
107	Identification of the uncultured bacillus of Whipple's disease. <i>New England Journal of Medicine</i> , <b>1992</b> , 327, 293-301	59.2	989
106	The agent of bacillary angiomatosis. An approach to the identification of uncultured pathogens. <i>New England Journal of Medicine</i> , <b>1990</b> , 323, 1573-80	59.2	799
105	rrndb: the Ribosomal RNA Operon Copy Number Database. <i>Nucleic Acids Research</i> , <b>2001</b> , 29, 181-4	20.1	775
104	Decreased diversity of the fecal Microbiome in recurrent Clostridium difficile-associated diarrhea. <i>Journal of Infectious Diseases</i> , <b>2008</b> , 197, 435-8	7	764
103	A new version of the RDP (Ribosomal Database Project). <i>Nucleic Acids Research</i> , <b>1999</b> , 27, 171-3	20.1	760
102	Fundamentals of microbial community resistance and resilience. <i>Frontiers in Microbiology</i> , <b>2012</b> , 3, 417	5.7	759
101	rRNA operon copy number reflects ecological strategies of bacteria. <i>Applied and Environmental Microbiology</i> , <b>2000</b> , 66, 1328-33	4.8	757
100	Comparison of the respiratory microbiome in healthy nonsmokers and smokers. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2013</b> , 187, 1067-75	10.2	501
99	rrnDB: improved tools for interpreting rRNA gene abundance in bacteria and archaea and a new foundation for future development. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, D593-8	20.1	466
98	Analysis of the upper respiratory tract microbiotas as the source of the lung and gastric microbiotas in healthy individuals. <i>MBio</i> , <b>2015</b> , 6, e00037	7.8	429
97	Reproducible community dynamics of the gastrointestinal microbiota following antibiotic perturbation. <i>Infection and Immunity</i> , <b>2009</b> , 77, 2367-75	3.7	418
96	Gut microbiome-derived metabolites modulate intestinal epithelial cell damage and mitigate graft-versus-host disease. <i>Nature Immunology</i> , <b>2016</b> , 17, 505-513	19.1	366
95	Systematic artifacts in metagenomes from complex microbial communities. <i>ISME Journal</i> , <b>2009</b> , 3, 1314-1321	11.9	363
94	rrnDB: documenting the number of rRNA and tRNA genes in bacteria and archaea. <i>Nucleic Acids Research</i> , <b>2009</b> , 37, D489-93	20.1	333

93	New strategies for cultivation and detection of previously uncultured microbes. <i>Applied and Environmental Microbiology</i> , <b>2004</b> , 70, 4748-55	4.8	320
92	Dynamics of Human Gut Microbiota and Short-Chain Fatty Acids in Response to Dietary Interventions with Three Fermentable Fibers. <i>MBio</i> , <b>2019</b> , 10,	7.8	280
91	Perennial grasslands enhance biodiversity and multiple ecosystem services in bioenergy landscapes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 1652-7	11.5	278
90	Land-use history has a stronger impact on soil microbial community composition than aboveground vegetation and soil properties. <i>Soil Biology and Biochemistry</i> , <b>2011</b> , 43, 2184-2193	7.5	276
89	Isolation and characterization of soil bacteria that define Terriglobus gen. nov., in the phylum Acidobacteria. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 2708-17	4.8	259
88	Acetogenesis from H <sub>2</sub> plus CO <sub>2</sub> by spirochetes from termite guts. <i>Science</i> , <b>1999</b> , 283, 686-9	33.3	251
87	Antibiotic-associated diarrhea accompanied by large-scale alterations in the composition of the fecal microbiota. <i>Journal of Clinical Microbiology</i> , <b>2004</b> , 42, 1203-6	9.7	241
86	Application of a neutral community model to assess structuring of the human lung microbiome. <i>MBio</i> , <b>2015</b> , 6,	7.8	237
85	Diversity and dynamics of microbial communities in soils from agro-ecosystems. <i>Environmental Microbiology</i> , <b>2003</b> , 5, 441-52	5.2	234
84	Exploiting rRNA operon copy number to investigate bacterial reproductive strategies. <i>Nature Microbiology</i> , <b>2016</b> , 1, 16160	26.6	183
83	Variable responses of human microbiomes to dietary supplementation with resistant starch. <i>Microbiome</i> , <b>2016</b> , 4, 33	16.6	181
82	SwissFEL: The Swiss X-ray Free Electron Laser. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 720	2.6	177
81	Phylogenetic analysis of nonthermophilic members of the kingdom crenarchaeota and their diversity and abundance in soils. <i>Applied and Environmental Microbiology</i> , <b>1998</b> , 64, 4333-9	4.8	170
80	Influence of plant polymers on the distribution and cultivation of bacteria in the phylum Acidobacteria. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 586-96	4.8	158
79	Symbiotic bacteria appear to mediate hyena social odors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 19832-7	11.5	144
78	Farming for Ecosystem Services: An Ecological Approach to Production Agriculture. <i>BioScience</i> , <b>2014</b> , 64, 404-415	5.7	139
77	Shallow breathing: bacterial life at low O <sub>2</sub> . <i>Nature Reviews Microbiology</i> , <b>2013</b> , 11, 205-12	22.2	130
76	Neonatal acquisition of species protects against colonization by bacterial pathogens. <i>Science</i> , <b>2017</b> , 356, 315-319	33.3	122

75	Evolution of competitive fitness in experimental populations of <i>E. coli</i> : what makes one genotype a better competitor than another?. <i>Antonie Van Leeuwenhoek</i> , <b>1998</b> , 73, 35-47	2.1	116
74	Life history implications of rRNA gene copy number in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , <b>2004</b> , 70, 6670-7	4.8	115
73	Agriculture's impact on microbial diversity and associated fluxes of carbon dioxide and methane. <i>ISME Journal</i> , <b>2011</b> , 5, 1683-91	11.9	111
72	Changes in the gut microbiome and fermentation products concurrent with enhanced longevity in acarbose-treated mice. <i>BMC Microbiology</i> , <b>2019</b> , 19, 130	4.5	98
71	The daily dynamics of cystic fibrosis airway microbiota during clinical stability and at exacerbation. <i>Microbiome</i> , <b>2015</b> , 3, 12	16.6	98
70	Multicenter Comparison of Lung and Oral Microbiomes of HIV-infected and HIV-uninfected Individuals. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2015</b> , 192, 1335-44	10.2	97
69	Bacterial colonization stimulates a complex physiological response in the immature human intestinal epithelium. <i>ELife</i> , <b>2017</b> , 6,	8.9	97
68	A gene-targeted approach to investigate the intestinal butyrate-producing bacterial community. <i>Microbiome</i> , <b>2013</b> , 1, 8	16.6	94
67	Environmental factors influencing the distribution of rRNA from Verrucomicrobia in soil. <i>FEMS Microbiology Ecology</i> , <b>2001</b> , 35, 105-112	4.3	93
66	The physiology and ecological implications of efficient growth. <i>ISME Journal</i> , <b>2015</b> , 9, 1481-7	11.9	88
65	Evidence for a bacterial mechanism for group-specific social odors among hyenas. <i>Scientific Reports</i> , <b>2012</b> , 2, 615	4.9	88
64	Phylogenetic relationships among the agent of bacillary angiomatosis, <i>Bartonella bacilliformis</i> , and other alpha-proteobacteria. <i>Molecular Microbiology</i> , <b>1992</b> , 6, 1801-7	4.1	88
63	Genomic and physiological characterization of the Verrucomicrobia isolate <i>Geminisphaera colitermitum</i> gen. nov., sp. nov., reveals microaerophily and nitrogen fixation genes. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 1544-55	4.8	82
62	Archaeal nucleic acids in picoplankton from great lakes on three continents. <i>Microbial Ecology</i> , <b>2003</b> , 46, 238-48	4.4	82
61	The Cancer Microbiome: Distinguishing Direct and Indirect Effects Requires a Systemic View. <i>Trends in Cancer</i> , <b>2020</b> , 6, 192-204	12.5	79
60	A small, dilute-cytoplasm, high-affinity, novel bacterium isolated by extinction culture and having kinetic constants compatible with growth at ambient concentrations of dissolved nutrients in seawater. <i>Applied and Environmental Microbiology</i> , <b>1998</b> , 64, 4467-76	4.8	79
59	Functional gene differences in soil microbial communities from conventional, low-input, and organic farmlands. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 1284-92	4.8	73
58	Colonization of the cecal mucosa by <i>Helicobacter hepaticus</i> impacts the diversity of the indigenous microbiota. <i>Infection and Immunity</i> , <b>2005</b> , 73, 6952-61	3.7	71

57	Performance of the translational apparatus varies with the ecological strategies of bacteria. <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 3237-45	3.5	64
56	Rates and consequences of recombination between rRNA operons. <i>Journal of Bacteriology</i> , <b>2003</b> , 185, 966-72	3.5	63
55	Phylogenetic identification of uncultured pathogens using ribosomal RNA sequences. <i>Methods in Enzymology</i> , <b>1994</b> , 235, 205-22	1.7	56
54	Effects of Atypical Antipsychotic Treatment and Resistant Starch Supplementation on Gut Microbiome Composition in a Cohort of Patients with Bipolar Disorder or Schizophrenia. <i>Pharmacotherapy</i> , <b>2019</b> , 39, 161-170	5.8	51
53	Biomass and biofuel crop effects on biodiversity and ecosystem services in the North Central US. <i>Biomass and Bioenergy</i> , <b>2018</b> , 114, 18-29	5.3	50
52	Bacterial Dissemination to the Brain in Sepsis. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2018</b> , 197, 747-756	10.2	50
51	Bacterial growth efficiency varies in soils under different land management practices. <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 69, 282-290	7.5	49
50	Vertebrate Hosts as Islands: Dynamics of Selection, Immigration, Loss, Persistence, and Potential Function of Bacteria on Salamander Skin. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 333	5.7	48
49	Role of Rhodobacter sp. strain PS9, a purple non-sulfur photosynthetic bacterium isolated from an anaerobic swine waste lagoon, in odor remediation. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 1710-20	4.8	41
48	The first cellular bioenergetic process: primitive generation of a proton-motive force. <i>Journal of Molecular Evolution</i> , <b>1991</b> , 33, 297-304	3.1	41
47	A compact and cost-effective hard X-ray free-electron laser driven by a high-brightness and low-energy electron beam. <i>Nature Photonics</i> , <b>2020</b> , 14, 748-754	33.9	38
46	Distribution of the <i>tfdA</i> Gene in Soil Bacteria That Do Not Degrade 2,4-Dichlorophenoxyacetic Acid (2,4-D). <i>Microbial Ecology</i> , <b>1997</b> , 34, 90-6	4.4	37
45	Nucleic acid content of <i>synechococcus</i> spp. during growth in continuous light and light/dark cycles. <i>Archives of Microbiology</i> , <b>1998</b> , 170, 201-7	3	35
44	Lung and gut microbiota are altered by hyperoxia and contribute to oxygen-induced lung injury in mice. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	31
43	Multiphasic analysis of the temporal development of the distal gut microbiota in patients following ileal pouch anal anastomosis. <i>Microbiome</i> , <b>2013</b> , 1, 9	16.6	29
42	Overview of the gastrointestinal microbiota. <i>Advances in Experimental Medicine and Biology</i> , <b>2008</b> , 635, 29-40	3.6	27
41	Growth rate-dependent accumulation of RNA from plasmid-borne rRNA operons in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 1970-2	3.5	26
40	Spectral characterization of c-type cytochromes purified from <i>Beggiatoa alba</i> . <i>Archives of Microbiology</i> , <b>1990</b> , 154, 453-458	3	24

39	The maturing of microbial ecology. <i>International Microbiology</i> , <b>2006</b> , 9, 217-23	3	23
38	The SwissFEL soft X-ray free-electron laser beamline: Athos. <i>Journal of Synchrotron Radiation</i> , <b>2019</b> , 26, 1073-1084	2.4	21
37	Butyrogenic bacteria after acute graft-versus-host disease (GVHD) are associated with the development of steroid-refractory GVHD. <i>Blood Advances</i> , <b>2019</b> , 3, 2866-2869	7.8	21
36	A synthesis of bacterial and archaeal phenotypic trait data. <i>Scientific Data</i> , <b>2020</b> , 7, 170	8.2	20
35	Phylogenetic characterization and prevalence of "Spirobacillus cienkowskii," a red-pigmented, spiral-shaped bacterial pathogen of freshwater Daphnia species. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 1575-82	4.8	20
34	Studying the Enteric Microbiome in Inflammatory Bowel Diseases: Getting through the Growing Pains and Moving Forward. <i>Frontiers in Microbiology</i> , <b>2011</b> , 2, 144	5.7	19
33	Development of an ecophysiological model for <i>Diplosphaera colotermitum</i> TAV2, a termite hindgut <i>Verrucomicrobium</i> . <i>ISME Journal</i> , <b>2013</b> , 7, 1803-13	11.9	15
32	Protein synthesis by <i>Beggiatoa alba</i> B18LD in the presence and absence of sulfide. <i>Archives of Microbiology</i> , <b>1986</b> , 144, 158-162	3	15
31	Identifying and removing artificial replicates from 454 pyrosequencing data. <i>Cold Spring Harbor Protocols</i> , <b>2010</b> , 2010, pdb.prot5409	1.2	13
30	Undulator beamline optimization with integrated chicanes for X-ray free-electron-laser facilities. <i>Journal of Synchrotron Radiation</i> , <b>2016</b> , 23, 861-8	2.4	12
29	Multiplicity of Ribosomal RNA Operons in Prokaryotic Genomes <b>1998</b> , 221-229		11
28	Electron transport and respiration in <i>Beggiatoa</i> and <i>Vitreoscilla</i> . <i>Archives of Microbiology</i> , <b>1986</b> , 145, 71-75	3	10
27	Differences in codon bias cannot explain differences in translational power among microbes. <i>BMC Bioinformatics</i> , <b>2005</b> , 6, 3	3.6	9
26	Application of Traditional and Phylogenetically Based Comparative Methods to Test for a Trade-off in Bacterial Growth Rate at Low versus High Substrate Concentration. <i>Microbial Ecology</i> , <b>1999</b> , 38, 191-200	4.4	9
25	The emergence of microbiome centres. <i>Nature Microbiology</i> , <b>2020</b> , 5, 2-3	26.6	7
24	Bacterial communities in Malagasy soils with differing levels of disturbance affecting botanical diversity. <i>PLoS ONE</i> , <b>2014</b> , 9, e85097	3.7	6
23	A systems approach to model natural variation in reactive properties of bacterial ribosomes. <i>BMC Systems Biology</i> , <b>2008</b> , 2, 62	3.5	5
22	Genomes Assembled from Metagenomes Suggest Genetic Drivers of Differential Response to Acarbose Treatment in Mice. <i>MSphere</i> , <b>2021</b> , e0085121	5	5

21	Author response: Bacterial colonization stimulates a complex physiological response in the immature human intestinal epithelium <b>2017</b> ,		5
20	Age-Related Variation in the Scent Pouch Bacterial Communities of Striped Hyenas ( <i>Hyaena hyaena</i> ) <b>2016</b> , 87-103		5
19	Methods for Characterizing Microbial Communities Associated with the Human Body51-74		5
18	The effect of natural selection on the performance of maximum parsimony. <i>BMC Evolutionary Biology</i> , <b>2007</b> , 7, 94	3	4
17	Environmental factors influencing the distribution of rRNA from Verrucomicrobia in soil		4
16	Targeting the Gut Microbiome to Mitigate Immunotherapy-Induced Colitis in Cancer. <i>Trends in Cancer</i> , <b>2021</b> , 7, 583-593	12.5	4
15	Microfluidic Sensors with Impregnated Fluorophores for Simultaneous Imaging of Spatial Structure and Chemical Oxygen Gradients. <i>ACS Sensors</i> , <b>2019</b> , 4, 317-325	9.2	4
14	The Effect of Natural Selection on Phylogeny Reconstruction Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 13-24	0.9	3
13	Physiological and Ecological Adaptations of Slow-Growing, Heterotrophic Microbes and Consequences for Cultivation. <i>Microbiology Monographs</i> , <b>2009</b> , 257-276	0.8	3
12	Dynamics of human gut microbiota and short-chain fatty acids in response to dietary interventions with three fermentable fibers		3
11	Diverse events have transferred genes for edible seaweed digestion from marine to human gut bacteria.. <i>Cell Host and Microbe</i> , <b>2022</b> ,	23.4	3
10	Mechanistic insights into consumption of the food additive xanthan gum by the human gut microbiota.. <i>Nature Microbiology</i> , <b>2022</b> , 7, 556-569	26.6	3
9	Changes in the gut microbiota and fermentation products associated with enhanced longevity in acarbose-treated mice		2
8	Analysis of the first magnetic results of the PSI APPLE X undulators in elliptical polarisation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2021</b> , 987, 164741	1.2	2
7	Changes in <i>Synechococcus</i> population size and cellular ribosomal RNA content in response to predation and nutrient limitation. <i>Microbial Ecology</i> , <b>2004</b> , 48, 1-9	4.4	1
6	Bacteria Battling for Survival <b>2012</b> , 59-64		1
5	Demonstration of a compact x-ray free-electron laser using the optical klystron effect. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 151102	3.4	1
4	Muribaculaceae genomes assembled from metagenomes suggest genetic drivers of differential response to acarbose treatment in mice		1

- 3 Conceptual Exchanges for Understanding Free-Living and Host-Associated Microbiomes.. *MSystems*, **2022**, e0137421 7.6 ○
- 2 Rational Modification of Intestinal Microbiome and Metabolites after Allogeneic Hematopoietic Stem Cell Transplantation with Resistant Starch: A Pilot Study. *Blood*, **2019**, 134, 3276-3276 2.2
- 1 Measurement of rRNA Abundance by Hybridization with Oligodeoxynucleotide Probes897-908