Robert A Britton

List of Publications by Year
in descending order

106 papers	5,884 citations	101543 36 h-index	82547 72 g-index
116 all docs	116 docs citations	116 times ranked	7432 citing authors

#	Article	IF	Citations
1	Mechanisms Underlying Microbial-Mediated Changes in Social Behavior in Mouse Models of Autism Spectrum Disorder. Neuron, 2019, 101, 246-259.e6.	8.1	477
2	Probiotic<i>L. reuteri</i>Treatment Prevents Bone Loss in a Menopausal Ovariectomized Mouse Model. Journal of Cellular Physiology, 2014, 229, 1822-1830.	4.1	374
3	Role of the Intestinal Microbiota in Resistance to Colonization by Clostridium difficile. Gastroenterology, 2014, 146, 1547-1553.	1.3	369
4	Histamine Derived from Probiotic Lactobacillus reuteri Suppresses TNF via Modulation of PKA and ERK Signaling. PLoS ONE, 2012, 7, e31951.	2.5	363
5	Probiotic use decreases intestinal inflammation and increases bone density in healthy male but not female mice. Journal of Cellular Physiology, 2013, 228, 1793-1798.	4.1	217
6	The antimicrobial compound reuterin (3-hydroxypropionaldehyde) induces oxidative stress via interaction with thiol groups. Microbiology (United Kingdom), 2010, 156, 1589-1599.	1.8	213
7	Interaction between the intestinal microbiota and host in Clostridium difficile colonization resistance. Trends in Microbiology, 2012, 20, 313-319.	7.7	213
8	Engineering bacterial thiosulfate and tetrathionate sensors for detecting gut inflammation. Molecular Systems Biology, 2017, 13, 923.	7.2	194
9	High efficiency recombineering in lactic acid bacteria. Nucleic Acids Research, 2012, 40, e76-e76.	14.5	182
10	Prebiotic and Probiotic Regulation of Bone Health: Role of the Intestine and its Microbiome. Current Osteoporosis Reports, 2015, 13, 363-371.	3.6	169
11	Intestinal microbial communities associated with acute enteric infections and disease recovery. Microbiome, 2015, 3, 45.	11.1	151
12	Role of GTPases in Bacterial Ribosome Assembly. Annual Review of Microbiology, 2009, 63, 155-176.	7.3	138
13	Maturation of the 5' end of Bacillus subtilis 16S rRNA by the essential ribonuclease YkqC/RNase J1. Molecular Microbiology, 2007, 63, 127-138.	2.5	129
14	Cell cycle arrest in Era GTPase mutants: a potential growth rateâ€regulated checkpoint in <i>Escherichia coli</i>. Molecular Microbiology, 1998, 27, 739-750.	2.5	127
15	Probiotic <i>Lactobacillus reuteri</i> Prevents Postantibiotic Bone Loss by Reducing Intestinal Dysbiosis and Preventing Barrier Disruption. Journal of Bone and Mineral Research, 2019, 34, 681-698.	2.8	119
16	Loss of Bone and Wnt10b Expression in Male Type 1 Diabetic Mice Is Blocked by the Probiotic Lactobacillus reuteri. Endocrinology, 2015, 156, 3169-3182.	2.8	113
17	Cultivation of stable, reproducible microbial communities from different fecal donors using minibioreactor arrays (MBRAs). Microbiome, 2015, 3, 42.	11.1	104
18	Involvement of the Gut Microbiota and Barrier Function in Glucocorticoidâ€Induced Osteoporosis. Journal of Bone and Mineral Research, 2020, 35, 801-820.	2.8	101

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19	<i>Fusobacterium nucleatum</i> Secretes Outer Membrane Vesicles and Promotes Intestinal Inflammation. MBio, 2021, 12, .	4.1	101
20	Lactobacillus reuteri 6475 Increases Bone Density in Intact Females Only under an Inflammatory Setting. PLoS ONE, 2016, 11, e0153180.	2.5	81
21	Protective role of commensal bacteria in SjÃ¶gren Syndrome. Journal of Autoimmunity, 2018, 93, 45-56.	6.5	77
22	Role of Lactobacillus reuteri cell and mucus-binding protein A (CmbA) in adhesion to intestinal epithelial cells and mucus in vitro. Microbiology (United Kingdom), 2014, 160, 671-681.	1.8	75
23	Human-Derived Bifidobacterium dentium Modulates the Mammalian Serotonergic System and Gutâ€"Brain Axis. Cellular and Molecular Gastroenterology and Hepatology, 2021, 11, 221-248.	4.5	73
24	Epidemic Clostridium difficile Strains Demonstrate Increased Competitive Fitness Compared to Nonepidemic Isolates. Infection and Immunity, 2014, 82, 2815-2825.	2.2	70
25	Adaptation of the Gut Microbiota to Modern Dietary Sugars and Sweeteners. Advances in Nutrition, 2020, 11, 616-629.	6.4	70
26	Humanized microbiota mice as a model of recurrent Clostridium difficile disease. Microbiome, 2015, 3, 35.	11.1	68
27	Next-Generation Probiotics Targeting Clostridium difficile through Precursor-Directed Antimicrobial Biosynthesis. Infection and Immunity, 2017, 85, .	2.2	65
28	Gut Microbiota and Bone Health. Advances in Experimental Medicine and Biology, 2017, 1033, 47-58.	1.6	64
29	CRISPR Diversity and Microevolution in<i>Clostridium difficile</i>. Genome Biology and Evolution, 2016, 8, 2841-2855.	2.5	60
30	Human Intestinal Enteroids With Inducible Neurogenin-3 Expression as a Novel Model of Gut Hormone Secretion. Cellular and Molecular Gastroenterology and Hepatology, 2019, 8, 209-229.	4.5	60
31	SjÃ¶gren-Like Lacrimal Keratoconjunctivitis in Germ-Free Mice. International Journal of Molecular Sciences, 2018, 19, 565.	4.1	57
32	Conservation and evolution of the rpsU-dnaG-rpoD macromolecular synthesis operon in bacteria. Molecular Microbiology, 1993, 8, 343-355.	2.5	56
33	The gut-eye-lacrimal gland-microbiome axis in SjÃ¶gren Syndrome. Ocular Surface, 2020, 18, 335-344.	4.4	55
34	Incorporating Genomics and Bioinformatics across the Life Sciences Curriculum. PLoS Biology, 2010, 8, e1000448.	5.6	54
35	Fusobacterium nucleatum Adheres to Clostridioides difficile via the RadD Adhesin to Enhance Biofilm Formation in Intestinal Mucus. Gastroenterology, 2021, 160, 1301-1314.e8.	1.3	46
36	Rotavirus induces intercellular calcium waves through ADP signaling. Science, 2020, 370, .	12.6	44

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37	Mechanisms of cross-talk between the diet, the intestinal microbiome, and the undernourished host. Gut Microbes, 2017, 8, 98-112.	9.8	43
38	YphC and YsxC GTPases assist the maturation of the central protuberance, GTPase associated region and functional core of the 50S ribosomal subunit. Nucleic Acids Research, 2016, 44, 8442-8455.	14.5	42
39	Probiotics and Gastrointestinal Infections. Interdisciplinary Perspectives on Infectious Diseases, 2008, 2008, 1-10.	1.4	41
40	Structural consequences of the interaction of RbgA with a 50S ribosomal subunit assembly intermediate. Nucleic Acids Research, 2019, 47, 10414-10425.	14.5	38
41	Microbiota Reconstitution Does Not Cause Bone Loss in Germ-Free Mice. MSphere, 2018, 3, .	2.9	36
42	The role of trehalose in the global spread of epidemic<i>Clostridium difficile</i>. Gut Microbes, 2019, 10, 204-209.	9.8	32
43	Scales of persistence: transmission and the microbiome. Current Opinion in Microbiology, 2019, 50, 42-49.	5.1	31
44	Post-antibiotic gut dysbiosis-induced trabecular bone loss is dependent on lymphocytes. Bone, 2020, 134, 115269.	2.9	29
45	Beneficial effects of Lactobacillus reuteri 6475 on bone density in male mice is dependent on lymphocytes. Scientific Reports, 2019, 9, 14708.	3.3	28
46	MiniBioReactor Arrays (MBRAs) as a Tool for Studying C. difficile Physiology in the Presence of a Complex Community. Methods in Molecular Biology, 2016, 1476, 235-258.	0.9	26
47	Body Mass Index as a Determinant of Systemic Exposure to Gallotannin Metabolites during 6â€Week Consumption of Mango (<i>Mangifera indica</i> L.) and Modulation of Intestinal Microbiota in Lean and Obese Individuals. Molecular Nutrition and Food Research, 2019, 63, e1800512.	3.3	24
48	Functional Interaction between Ribosomal Protein L6 and RbgA during Ribosome Assembly. PLoS Genetics, 2014, 10, e1004694.	3.5	23
49	Reuterin disrupts <i>Clostridioides difficile</i> metabolism and pathogenicity through reactive oxygen species generation. Gut Microbes, 2020, 12, 1795388.	9.8	23
50	Human intestinal enteroids as a model of<i>Clostridioides difficile</i>-induced enteritis. American Journal of Physiology - Renal Physiology, 2020, 318, G870-G888.	3.4	23
51	Degradation-resistant trehalose analogues block utilization of trehalose by hypervirulent Clostridioides difficile. Chemical Communications, 2019, 55, 5009-5012.	4.1	22
52	Characterizing how probiotic Lactobacillus reuteri 6475 and lactobacillic acid mediate suppression of osteoclast differentiation. Bone Reports, 2019, 11, 100227.	0.4	22
53	Discovery of a bacterial peptide as a modulator of GLP-1 and metabolic disease. Scientific Reports, 2020, 10, 4922.	3.3	22
54	Cyclopropane fatty acid synthase mutants of probiotic human-derivedLactobacillus reuteriare defective in TNF inhibition. Gut Microbes, 2011, 2, 69-79.	9.8	21

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55	Dysbiosis Modulates Ocular Surface Inflammatory Response to Liposaccharide. , 2019, 60, 4224.		21
56	Parenteral lipids shape gut bile acid pools and microbiota profiles in the prevention of cholestasis in preterm pigs. Journal of Lipid Research, 2020, 61, 1038-1051.	4.2	21
57	AMiGA: Software for Automated Analysis of Microbial Growth Assays. MSystems, 2021, 6, e0050821.	3.8	20
58	The impact of recent improvements in cryo-electron microscopy technology on the understanding of bacterial ribosome assembly. Nucleic Acids Research, 2017, 45, 1027-1040.	14.5	19
59	Gut-derived butyrate suppresses ocular surface inflammation. Scientific Reports, 2022, 12, 4512.	3.3	19
60	Enhancing responsiveness of human jejunal enteroids to host and microbial stimuli. Journal of Physiology, 2020, 598, 3085-3105.	2.9	17
61	Drivers of transcriptional variance in human intestinal epithelial organoids. Physiological Genomics, 2021, 53, 486-508.	2.3	17
62	Probiotics and the Microbiomeâ€"How Can We Help Patients Make Sense of Probiotics?. Gastroenterology, 2021, 160, 614-623.	1.3	16
63	Gut Microbiota From SjÃ¶gren syndrome Patients Causes Decreased T Regulatory Cells in the Lymphoid Organs and Desiccation-Induced Corneal Barrier Disruption in Mice. Frontiers in Medicine, 2022, 9, 852918.	2.6	16
64	Identification of Simplified Microbial Communities That Inhibit Clostridioides difficile Infection through Dilution/Extinction. MSphere, 2020, 5, .	2.9	15
65	Systems biology analysis of the Clostridioides difficile core-genome contextualizes microenvironmental evolutionary pressures leading to genotypic and phenotypic divergence. Npj Systems Biology and Applications, 2020, 6, 31.	3.0	15
66	Microbiota in vitro modulated with polyphenols shows decreased colonization resistance against Clostridioides difficile but can neutralize cytotoxicity. Scientific Reports, 2020, 10, 8358.	3.3	15
67	Resilience of small intestinal beneficial bacteria to the toxicity of soybean oil fatty acids. ELife, 2018, 7, .	6.0	14
68	Degradation of the Incretin Hormone Glucagon-Like Peptide-1 (GLP-1) by Enterococcus faecalis Metalloprotease GelE. MSphere, 2020, 5, .	2.9	14
69	Bifidobacteria and Their Health-Promoting Effects. , 2018, , 73-98.		13
70	The metabolic profile of Bifidobacterium dentium reflects its status as a human gut commensal. BMC Microbiology, 2021, 21, 154.	3.3	13
71	Differentially Expressed Gene Pathways in the Conjunctiva of SjÃ¶gren Syndrome Keratoconjunctivitis Sicca. Frontiers in Immunology, 2021, 12, 702755.	4.8	13
72	Isolation and Characterization of Suppressors of Two <i>Escherichia coli dnaG</i> Mutations, <i>dnaG2903</i> and <i>parB</i>. Genetics, 1997, 145, 867-875.	2.9	13

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73	Probiotics: Promise, Evidence, and Hope. Gastroenterology, 2020, 159, 409-413.	1.3	10
74	Distinct gene expression profiles between human preterm-derived and adult-derived intestinal organoids exposed to<i>Enterococcus faecalis</i>: a pilot study. Gut, 2022, 71, 2141-2143.	12.1	10
75	Genome alterations associated with improved transformation efficiency in Lactobacillus reuteri. Microbial Cell Factories, 2018, 17, 138.	4.0	9
76	Modulation of the Gastrointestinal Microbiome with Nondigestible Fermentable Carbohydrates To Improve Human Health. , 0, , 453-483.		8
77	Challenges and Pitfalls in the Engineering of Human Interleukin 22 (hIL-22) Secreting Lactobacillus reuteri. Frontiers in Bioengineering and Biotechnology, 2020, 8, 543.	4.1	8
78	Systems biology evaluation of refractory Clostridioides difficile infection including multiple failures of fecal microbiota transplantation. Anaerobe, 2021, 70, 102387.	2.1	8
79	Enterococci and Their Interactions with the Intestinal Microbiome. , 2018, , 309-330.		7
80	Crowdsourcing biocuration: The Community Assessment of Community Annotation with Ontologies (CACAO). PLoS Computational Biology, 2021, 17, e1009463.	3.2	7
81	The Potential of Probiotics as a Therapy for Osteoporosis. , 0, , 213-233.		6
82	Systems biology approach to functionally assess the <i>Clostridioides difficile</i> pangenome reveals genetic diversity with discriminatory power. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119396119.	7.1	5
83	Functional analysis of mutations in the transcription terminator T1 that suppress two dnaG alleles in Escherichia coli. Molecular Genetics and Genomics, 1995, 246, 729-733.	2.4	4
84	Genetic Tools for the Enhancement of Probiotic Properties. Microbiology Spectrum, 2017, 5, .	3.0	4
85	Engineering Diagnostic and Therapeutic Gut Bacteria. , 0, , 331-361.		4
86	RbgA ensures the correct timing in the maturation of the 50S subunits functional sites. Nucleic Acids Research, 2022, , .	14.5	4
87	DNA Microarrays and Bacterial Gene Expression. Methods in Enzymology, 2003, 370, 264-278.	1.0	3
88	Bacteriophage Clinical Use as Antibacterial â€œDrugsâ€: Utility and Precedent. , 0, , 417-451.		2
89	Microbiota, Liver Diseases, and Alcohol. , 2018, , 187-212.		2
90	Fecal Microbiota Transplantation: Therapeutic Potential for a Multitude of Diseases beyond Clostridium difficile. , 2018, , 291-308.		2

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91	Genome Editing of Food-Grade Lactobacilli To Develop Therapeutic Probiotics. , 0, , 389-408.		2
92	United States Regulatory Considerations for Development of Live Biotherapeutic Products as Drugs. , 0, , 409-416.		1
93	Control of<i>Clostridium difficile</i>Infection by Defined Microbial Communities. , 0, , 267-289.		1
94	Microbial Interactions and Interventions in Colorectal Cancer. , 2018, , 99-130.		1
95	Genetic Tools for the Enhancement of Probiotic Properties. , 0, , 371-387.		0
96	Lung Microbiota and Its Impact on the Mucosal Immune Phenotype. , 2018, , 161-186.		0
97	Biochemical Features of Beneficial Microbes: Foundations for Therapeutic Microbiology. , 2018, , 1-47.		0
98	Ecological Therapeutic Opportunities for Oral Diseases. , 2018, , 235-265.		0
99	Use of Traditional and Genetically Modified Probiotics in Human Health: What Does the Future Hold?. , 2018, , 363-370.		0
100	The Genomic Basis of Lactobacilli as Health-Promoting Organisms. , 2018, , 49-71.		0
101	Microbial Impact on Host Metabolism: Opportunities for Novel Treatments of Nutritional Disorders?. , 2018, , 131-148.		0
102	Understanding the Role of RbgA in the Assembly of the 50S Ribosomal Subunit.. Microscopy and Microanalysis, 2020, 26, 118-119.	0.4	0
103	Human Intestinal Enteroid Monolayers as a Physiologically Relevant Model to Study Clostridium difficile Toxin Activity. FASEB Journal, 2018, 32, 873.1.	0.5	0
104	Lymphocytes mediate bone loss induced by gut microbiota repopulation following antibiotic use. FASEB Journal, 2019, 33, 589.4.	0.5	0
105	Characterizing mucusâ€based biofilms in human Clostridium difficile infection. FASEB Journal, 2020, 34, 1-1.	0.5	0
106	Dysregulation of Endogenous and Paracrine Calcium Signaling Pathways by Rotaviruses and Caliciviruses. FASEB Journal, 2020, 34, 1-1.	0.5	0