

Federico E Rey

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

15,966
citations

34
h-index

71
g-index

71
ext. papers

19,736
ext. citations

13.8
avg, IF

6.15
L-index

#	Paper	IF	Citations
59	Human gut microbiome viewed across age and geography. <i>Nature</i> , 2012 , 486, 222-7	50.4	4616
58	Gut microbiota from twins discordant for obesity modulate metabolism in mice. <i>Science</i> , 2013 , 341, 1241-1244	33.3	2251
57	The effect of diet on the human gut microbiome: a metagenomic analysis in humanized gnotobiotic mice. <i>Science Translational Medicine</i> , 2009 , 1, 6ra14	17.5	1977
56	Effects of the gut microbiota on host adiposity are modulated by the short-chain fatty-acid binding G protein-coupled receptor, Gpr41. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 16767-72	11.5	1070
55	Gut microbiome alterations in Alzheimer's disease. <i>Scientific Reports</i> , 2017 , 7, 13537	4.9	712
54	Olfactory receptor responding to gut microbiota-derived signals plays a role in renin secretion and blood pressure regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 4410-5	11.5	640
53	Characterizing a model human gut microbiota composed of members of its two dominant bacterial phyla. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5859-64	11.5	478
52	Predicting a human gut microbiota's response to diet in gnotobiotic mice. <i>Science</i> , 2011 , 333, 101-4	33.3	391
51	Intestinal microbiota composition modulates choline bioavailability from diet and accumulation of the proatherogenic metabolite trimethylamine-N-oxide. <i>MBio</i> , 2015 , 6, e02481	7.8	389
50	Diet-Microbiota Interactions Mediate Global Epigenetic Programming in Multiple Host Tissues. <i>Molecular Cell</i> , 2016 , 64, 982-992	17.6	280
49	Metabolic niche of a prominent sulfate-reducing human gut bacterium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 13582-7	11.5	239
48	Bacteria from diverse habitats colonize and compete in the mouse gut. <i>Cell</i> , 2014 , 159, 253-66	56.2	226
47	Dissecting the in vivo metabolic potential of two human gut acetogens. <i>Journal of Biological Chemistry</i> , 2010 , 285, 22082-90	5.4	225
46	Interactions between <i>Roseburia intestinalis</i> and diet modulate atherogenesis in a murine model. <i>Nature Microbiology</i> , 2018 , 3, 1461-1471	26.6	170
45	The gut microbiota-derived metabolite trimethylamine N-oxide is elevated in Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2018 , 10, 124	9	156
44	A Cardiovascular Disease-Linked Gut Microbial Metabolite Acts via Adrenergic Receptors. <i>Cell</i> , 2020 , 180, 862-877.e22	56.2	146
43	The reactive adventitia: fibroblast oxidase in vascular function. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2002 , 22, 1962-71	9.4	140

42	Vascular effects following homozygous disruption of p47(phox) : An essential component of NADPH oxidase. <i>Circulation</i> , 2000 , 101, 1234-6	16.7	140
41	Functional genomic analysis of three nitrogenase isozymes in the photosynthetic bacterium <i>Rhodospseudomonas palustris</i> . <i>Journal of Bacteriology</i> , 2005 , 187, 7784-94	3.5	126
40	Redirection of metabolism for biological hydrogen production. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 1665-71	4.8	121
39	Fatty acid synthase modulates intestinal barrier function through palmitoylation of mucin 2. <i>Cell Host and Microbe</i> , 2012 , 11, 140-52	23.4	103
38	Metabolic, Epigenetic, and Transgenerational Effects of Gut Bacterial Choline Consumption. <i>Cell Host and Microbe</i> , 2017 , 22, 279-290.e7	23.4	100
37	Perivascular superoxide anion contributes to impairment of endothelium-dependent relaxation: role of gp91(phox). <i>Circulation</i> , 2002 , 106, 2497-502	16.7	99
36	Trimethylamine N-Oxide Binds and Activates PERK to Promote Metabolic Dysfunction. <i>Cell Metabolism</i> , 2019 , 30, 1141-1151.e5	24.6	98
35	Host Genotype and Gut Microbiome Modulate Insulin Secretion and Diet-Induced Metabolic Phenotypes. <i>Cell Reports</i> , 2017 , 18, 1739-1750	10.6	91
34	Creating and characterizing communities of human gut microbes in gnotobiotic mice. <i>ISME Journal</i> , 2010 , 4, 1094-8	11.9	91
33	Regulation of uptake hydrogenase and effects of hydrogen utilization on gene expression in <i>Rhodospseudomonas palustris</i> . <i>Journal of Bacteriology</i> , 2006 , 188, 6143-52	3.5	90
32	Loss of Gut Microbiota Alters Immune System Composition and Cripples Postinfarction Cardiac Repair. <i>Circulation</i> , 2019 , 139, 647-659	16.7	85
31	Close social relationships correlate with human gut microbiota composition. <i>Scientific Reports</i> , 2019 , 9, 703	4.9	81
30	Untargeted metabolomics identifies trimethyllysine, a TMAO-producing nutrient precursor, as a predictor of incident cardiovascular disease risk. <i>JCI Insight</i> , 2018 , 3,	9.9	78
29	Microbial Transplantation With Human Gut Commensals Containing CutC Is Sufficient to Transmit Enhanced Platelet Reactivity and Thrombosis Potential. <i>Circulation Research</i> , 2018 , 123, 1164-1176	15.7	68
28	A common antimicrobial additive increases colonic inflammation and colitis-associated colon tumorigenesis in mice. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	62
27	Hydrogen production by photoreactive nanoporous latex coatings of nongrowing <i>Rhodospseudomonas palustris</i> CGA009. <i>Biotechnology Progress</i> , 2007 , 23, 124-30	2.8	55
26	FixK, a global regulator of microaerobic growth, controls photosynthesis in <i>Rhodospseudomonas palustris</i> . <i>Molecular Microbiology</i> , 2010 , 75, 1007-20	4.1	40
25	Genetic determinants of gut microbiota composition and bile acid profiles in mice. <i>PLoS Genetics</i> , 2019 , 15, e1008073	6	32

24	Sexual dimorphism of cardiometabolic dysfunction: Gut microbiome in the play?. <i>Molecular Metabolism</i> , 2018 , 15, 70-81	8.8	28
23	Chemical signaling between gut microbiota and host chromatin: What is your gut really saying?. <i>Journal of Biological Chemistry</i> , 2017 , 292, 8582-8593	5.4	27
22	Autometa: automated extraction of microbial genomes from individual shotgun metagenomes. <i>Nucleic Acids Research</i> , 2019 , 47, e57	20.1	27
21	Social and population health science approaches to understand the human microbiome. <i>Nature Human Behaviour</i> , 2018 , 2, 808-815	12.8	25
20	Critical symbiont signals drive both local and systemic changes in diel and developmental host gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 7990-7999	11.5	24
19	Gut Microbial and Metabolic Responses to Salmonella enterica Serovar Typhimurium and Candida albicans. <i>MBio</i> , 2018 , 9,	7.8	21
18	The emerging role of gut microbial metabolism on cardiovascular disease. <i>Current Opinion in Microbiology</i> , 2019 , 50, 64-70	7.9	19
17	Starch Utilization Promotes Quercetin Degradation and Butyrate Production by. <i>Frontiers in Microbiology</i> , 2019 , 10, 1145	5.7	17
16	Gut microbes impact stroke severity via the trimethylamine N-oxide pathway. <i>Cell Host and Microbe</i> , 2021 , 29, 1199-1208.e5	23.4	17
15	Gut microbiome variation modulates the effects of dietary fiber on host metabolism. <i>Microbiome</i> , 2021 , 9, 117	16.6	14
14	The Influence of Social Conditions Across the Life Course on the Human Gut Microbiota: A Pilot Project With the Wisconsin Longitudinal Study. <i>Journals of Gerontology - Series B Psychological Sciences and Social Sciences</i> , 2017 , 73, 124-133	4.6	10
13	Effects of Smoking and Smoking Cessation on the Intestinal Microbiota. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	10
12	Differential Catabolism of an Anthocyanin-Rich Elderberry Extract by Three Gut Microbiota Bacterial Species. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 1837-1843	5.7	9
11	Aronia berry polyphenols have matrix-dependent effects on the gut microbiota. <i>Food Chemistry</i> , 2021 , 359, 129831	8.5	9
10	Fecal Aliquot Straw Technique (FAST) allows for easy and reproducible subsampling: assessing interpersonal variation in trimethylamine-N-oxide (TMAO) accumulation. <i>Microbiome</i> , 2018 , 6, 91	16.6	8
9	Is maternal microbial metabolism an early-life determinant of health?. <i>Lab Animal</i> , 2018 , 47, 239-243	0.4	7
8	The Plot Thickens: Diet Microbe Interactions May Modulate Thrombosis Risk. <i>Cell Metabolism</i> , 2016 , 23, 573-5	24.6	7
7	Integrated Label-Free and 10-Plex DiLeu Isobaric Tag Quantitative Methods for Profiling Changes in the Mouse Hypothalamic Neuropeptidome and Proteome: Assessment of the Impact of the Gut Microbiome. <i>Analytical Chemistry</i> , 2020 , 92, 14021-14030	7.8	6

6	Extraction optimization for combined metabolomics, peptidomics, and proteomics analysis of gut microbiota samples. <i>Journal of Mass Spectrometry</i> , 2021 , 56, e4625	2.2	3
5	Gut-derived Flavonifractor species variants are differentially enriched during in vitro incubation with quercetin. <i>PLoS ONE</i> , 2020 , 15, e0227724	3.7	2
4	Social relationships, social isolation, and the human gut microbiota		2
3	Selective Bacterial Colonization of the Murine Larynx in a Gnotobiotic Model. <i>Frontiers in Microbiology</i> , 2020 , 11, 594617	5.7	2
2	Vocal fold mucus layer: Comparison of histological protocols for visualization in mice.. <i>Laryngoscope Investigative Otolaryngology</i> , 2022 , 7, 444-453	2.8	1
1	The human gut microbiota contributes to type-2 diabetes non-resolution 5-years after Roux-en-Y gastric bypass.. <i>Gut Microbes</i> , 2022 , 14, 2050635	8.8	1