

Federico E Rey

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

22,359
citations

93792

39
h-index

129628

63
g-index

71
all docs

71
docs citations

71
times ranked

30535
citing authors

#	ARTICLE	IF	CITATIONS
1	Vocal fold mucus layer: Comparison of histological protocols for visualization in mice. <i>Laryngoscope Investigative Otolaryngology</i> , 2022, 7, 444-453.	0.6	1
2	Polysaccharide utilization loci in <i>Bacteroides</i> determine population fitness and community-level interactions. <i>Cell Host and Microbe</i> , 2022, 30, 200-215.e12.	5.1	40
3	The microbial <i>gbu</i> gene cluster links cardiovascular disease risk associated with red meat consumption to microbiota l-carnitine catabolism. <i>Nature Microbiology</i> , 2022, 7, 73-86.	5.9	36
4	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.	4.3	15
5	A secondary metabolite drives intraspecies antagonism in a gut symbiont that is inhibited by cell-wall acetylation. <i>Cell Host and Microbe</i> , 2022, 30, 824-835.e6.	5.1	10
6	¹⁸ F-SynVesT-1 PET/MR Imaging of the Effect of Gut Microbiota on Synaptic Density and Neurite Microstructure: A Preclinical Pilot Study. <i>Frontiers in Radiology</i> , 2022, 2, .	1.2	0
7	Extraction optimization for combined metabolomics, peptidomics, and proteomics analysis of gut microbiota samples. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4625.	0.7	6
8	Gut microbiome variation modulates the effects of dietary fiber on host metabolism. <i>Microbiome</i> , 2021, 9, 117.	4.9	61
9	Gut microbes impact stroke severity via the trimethylamine N-oxide pathway. <i>Cell Host and Microbe</i> , 2021, 29, 1199-1208.e5.	5.1	78
10	Identification of sample mix-ups and mixtures in microbiome data in Diversity Outbred mice. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	0.8	2
11	Aronia berry polyphenols have matrix-dependent effects on the gut microbiota. <i>Food Chemistry</i> , 2021, 359, 129831.	4.2	22
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.	2.4	22
13	Selective Bacterial Colonization of the Murine Larynx in a Gnotobiotic Model. <i>Frontiers in Microbiology</i> , 2020, 11, 594617.	1.5	4
14	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.	3.2	11
15	Effects of Smoking and Smoking Cessation on the Intestinal Microbiota. <i>Journal of Clinical Medicine</i> , 2020, 9, 2963.	1.0	25
16	A Cardiovascular Disease-Linked Gut Microbial Metabolite Acts via Adrenergic Receptors. <i>Cell</i> , 2020, 180, 862-877.e22.	13.5	397
17	Gut-derived Flavonifractor species variants are differentially enriched during in vitro incubation with quercetin. <i>PLoS ONE</i> , 2020, 15, e0227724.	1.1	6
18	The emerging role of gut microbial metabolism on cardiovascular disease. <i>Current Opinion in Microbiology</i> , 2019, 50, 64-70.	2.3	36

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19	Genetic determinants of gut microbiota composition and bile acid profiles in mice. <i>PLoS Genetics</i> , 2019, 15, e1008073.	1.5	75
20	Trimethylamine N-Oxide Binds and Activates PERK to Promote Metabolic Dysfunction. <i>Cell Metabolism</i> , 2019, 30, 1141-1151.e5.	7.2	215
21	Close social relationships correlate with human gut microbiota composition. <i>Scientific Reports</i> , 2019, 9, 703.	1.6	134
22	<i>Bacteroides thetaiotaomicron</i> Starch Utilization Promotes Quercetin Degradation and Butyrate Production by <i>Eubacterium ramulus</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 1145.	1.5	41
23	Autometa: automated extraction of microbial genomes from individual shotgun metagenomes. <i>Nucleic Acids Research</i> , 2019, 47, e57-e57.	6.5	69
24	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.	3.3	31
25	Loss of Gut Microbiota Alters Immune System Composition and Cripples Postinfarction Cardiac Repair. <i>Circulation</i> , 2019, 139, 647-659.	1.6	183
26	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> , 2018, 73, 124-133.	2.4	15
27	Untargeted metabolomics identifies trimethyllysine, a TMAO-producing nutrient precursor, as a predictor of incident cardiovascular disease risk. <i>JCI Insight</i> , 2018, 3, .	2.3	122
28	Gut Microbial and Metabolic Responses to <i>Salmonella enterica</i> Serovar Typhimurium and <i>Candida albicans</i> . <i>MBio</i> , 2018, 9, .	1.8	31
29	The gut microbiota-derived metabolite trimethylamine N-oxide is elevated in Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2018, 10, 124.	3.0	273
30	Interactions between <i>Roseburia intestinalis</i> and diet modulate atherogenesis in a murine model. <i>Nature Microbiology</i> , 2018, 3, 1461-1471.	5.9	310
31	Social and population health science approaches to understand the human microbiome. <i>Nature Human Behaviour</i> , 2018, 2, 808-815.	6.2	33
32	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.	2.0	122
33	A common antimicrobial additive increases colonic inflammation and colitis-associated colon tumorigenesis in mice. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	117
34	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.	4.9	20
35	Is maternal microbial metabolism an early-life determinant of health?. <i>Lab Animal</i> , 2018, 47, 239-243.	0.2	13
36	Sexual dimorphism of cardiometabolic dysfunction: Gut microbiome in the play?. <i>Molecular Metabolism</i> , 2018, 15, 70-81.	3.0	49

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37	Host Genotype and Gut Microbiome Modulate Insulin Secretion and Diet-Induced Metabolic Phenotypes. <i>Cell Reports</i> , 2017, 18, 1739-1750.	2.9	143
38	Chemical signaling between gut microbiota and host chromatin: What is your gut really saying?. <i>Journal of Biological Chemistry</i> , 2017, 292, 8582-8593.	1.6	41
39	Gut microbiome alterations in Alzheimer's disease. <i>Scientific Reports</i> , 2017, 7, 13537.	1.6	1,256
40	Metabolic, Epigenetic, and Transgenerational Effects of Gut Bacterial Choline Consumption. <i>Cell Host and Microbe</i> , 2017, 22, 279-290.e7.	5.1	144
41	The Plot Thickens: Diet Microbe Interactions May Modulate Thrombosis Risk. <i>Cell Metabolism</i> , 2016, 23, 573-575.	7.2	9
42	Diet-Microbiota Interactions Mediate Global Epigenetic Programming in Multiple Host Tissues. <i>Molecular Cell</i> , 2016, 64, 982-992.	4.5	405
43	Intestinal Microbiota Composition Modulates Choline Bioavailability from Diet and Accumulation of the Proatherogenic Metabolite Trimethylamine- <i>N</i> -Oxide. <i>MBio</i> , 2015, 6, e02481.	1.8	535
44	Bacteria from Diverse Habitats Colonize and Compete in the Mouse Gut. <i>Cell</i> , 2014, 159, 253-266.	13.5	324
45	Gut Microbiota from Twins Discordant for Obesity Modulate Metabolism in Mice. <i>Science</i> , 2013, 341, 1241-1244.	6.0	3,006
46	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, 4410-4415.	3.3	893
47	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, 13582-13587.	3.3	318
48	Fatty Acid Synthase Modulates Intestinal Barrier Function through Palmitoylation of Mucin 2. <i>Cell Host and Microbe</i> , 2012, 11, 140-152.	5.1	139
49	Human gut microbiome viewed across age and geography. <i>Nature</i> , 2012, 486, 222-227.	13.7	6,247
50	Predicting a Human Gut Microbiota's Response to Diet in Gnotobiotic Mice. <i>Science</i> , 2011, 333, 101-104.	6.0	480
51	FixK, a global regulator of microaerobic growth, controls photosynthesis in <i>Rhodospseudomonas palustris</i> . <i>Molecular Microbiology</i> , 2010, 75, 1007-1020.	1.2	55
52	Creating and characterizing communities of human gut microbes in gnotobiotic mice. <i>ISME Journal</i> , 2010, 4, 1094-1098.	4.4	116
53	Dissecting the in Vivo Metabolic Potential of Two Human Gut Acetogens. <i>Journal of Biological Chemistry</i> , 2010, 285, 22082-22090.	1.6	332
54	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, 5859-5864.	3.3	612

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55	The Effect of Diet on the Human Gut Microbiome: A Metagenomic Analysis in Humanized Gnotobiotic Mice. <i>Science Translational Medicine</i> , 2009, 1, 6ra14.	5.8	2,492
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, 16767-16772.	3.3	1,279
57	Redirection of Metabolism for Biological Hydrogen Production. <i>Applied and Environmental Microbiology</i> , 2007, 73, 1665-1671.	1.4	149
58	Hydrogen Production by Photoreactive Nanoporous Latex Coatings of Nongrowing <i>Rhodospseudomonas palustris</i> CGA009. <i>Biotechnology Progress</i> , 2007, 23, 124-130.	1.3	69
59	Regulation of Uptake Hydrogenase and Effects of Hydrogen Utilization on Gene Expression in <i>Rhodospseudomonas palustris</i> . <i>Journal of Bacteriology</i> , 2006, 188, 6143-6152.	1.0	111
60	Functional Genomic Analysis of Three Nitrogenase Isozymes in the Photosynthetic Bacterium <i>Rhodospseudomonas palustris</i> . <i>Journal of Bacteriology</i> , 2005, 187, 7784-7794.	1.0	154
61	Perivascular Superoxide Anion Contributes to Impairment of Endothelium-Dependent Relaxation. <i>Circulation</i> , 2002, 106, 2497-2502.	1.6	105
62	The Reactive Adventitia. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2002, 22, 1962-1971.	1.1	161
63	Vascular Effects Following Homozygous Disruption of p47 ^{phox} . <i>Circulation</i> , 2000, 101, 1234-1236.	1.6	152