John F Rawls

List of Publications by Year
in descending order

95 papers	14,073 citations	47006 47 h-index	42399 92 g-index
111 all docs	111 docs citations	111 times ranked	16377 citing authors

#	Article	IF	Citations
1	Non-diphtheriae <i>Corynebacterium</i> species are associated with decreased risk of pneumococcal colonization during infancy. ISME Journal, 2022, 16, 655-665.	9.8	14
2	Advanced Obesity Treatment Selection among Adolescents in a Pediatric Weight Management Program. Childhood Obesity, 2022, 18, 237-245.	1.5	1
3	Age-Related Changes in the Nasopharyngeal Microbiome Are Associated With Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Infection and Symptoms Among Children, Adolescents, and Young Adults. Clinical Infectious Diseases, 2022, 75, e928-e937.	5.8	22
4	Starvation causes changes in the intestinal transcriptome and microbiome that are reversed upon refeeding. BMC Genomics, 2022, 23, 225.	2.8	10
5	A planar culture model of human absorptive enterocytes reveals metformin increases fatty acid oxidation and export. Cellular and Molecular Gastroenterology and Hepatology, 2022, , .	4.5	9
6	Transcriptional Integration of Distinct Microbial and Nutritional Signals by the Small Intestinal Epithelium. Cellular and Molecular Gastroenterology and Hepatology, 2022, 14, 465-493.	4.5	8
7	Using zebrafish to understand reciprocal interactions between the nervous and immune systems and the microbial world. Journal of Neuroinflammation, 2022, 19, .	7.2	8
8	Transcriptional programmes underlying cellular identity and microbial responsiveness in the intestinal epithelium. Nature Reviews Gastroenterology and Hepatology, 2021, 18, 7-23.	17.8	28
9	Enteroendocrine cells sense bacterial tryptophan catabolites to activate enteric and vagal neuronal pathways. Cell Host and Microbe, 2021, 29, 179-196.e9.	11.0	129
10	Acoustofluidic rotational tweezing enables high-speed contactless morphological phenotyping of zebrafish larvae. Nature Communications, 2021, 12, 1118.	12.8	49
11	The Pediatric Obesity Microbiome and Metabolism Study (POMMS): Methods, Baseline Data, and Early Insights. Obesity, 2021, 29, 569-578.	3.0	19
12	Fxr signaling and microbial metabolism of bile salts in the zebrafish intestine. Science Advances, 2021, 7, .	10.3	43
13	Single-cell imaging of T cell immunotherapy responses in vivo. Journal of Experimental Medicine, 2021, 218, .	8.5	16
14	Microbial influences on gut development and gut-brain communication. Development (Cambridge), 2021, 148, .	2.5	11
15	The emergence of microbiome centres. Nature Microbiology, 2020, 5, 2-3.	13.3	13
16	Conserved anti-inflammatory effects and sensing of butyrate in zebrafish. Gut Microbes, 2020, 12, 1824563.	9.8	41
17	Short-Chain Fatty Acid Production by Gut Microbiota from Children with Obesity Differs According to Prebiotic Choice and Bacterial Community Composition. MBio, 2020, 11, .	4.1	49
18	Single-cell imaging of human cancer xenografts using adult immunodeficient zebrafish. Nature Protocols, 2020, 15, 3105-3128.	12.0	14

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19	RSPO3 impacts body fat distribution and regulates adipose cell biology in vitro. Nature Communications, 2020, 11, 2797.	12.8	34
20	Feeling the Burn: Intestinal Epithelial Cells Modify Their Lipid Metabolism in Response to Bacterial Fermentation Products. Cell Host and Microbe, 2020, 27, 314-316.	11.0	11
21	Rationale and design of â€œHearts & Parksâ€• study protocol for a pragmatic randomized clinical trial of an integrated clinic-community intervention to treat pediatric obesity. BMC Pediatrics, 2020, 20, 308.	1.7	6
22	Epithelial delamination is protective during pharmaceutical-induced enteropathy. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16961-16970.	7.1	8
23	Commensal Bacteria Regulate Gene Expression and Differentiation in Vertebrate Olfactory Systems Through Transcription Factor REST. Chemical Senses, 2019, 44, 615-630.	2.0	13
24	Commensal Microbiota Regulate Vertebrate Innate Immunity-Insights From the Zebrafish. Frontiers in Immunology, 2019, 10, 2100.	4.8	51
25	Lysosome-Rich Enterocytes Mediate Protein Absorption in the Vertebrate Gut. Developmental Cell, 2019, 51, 7-20.e6.	7.0	74
26	Disrupted Maturation of the Microbiota and Metabolome among Extremely Preterm Infants with Postnatal Growth Failure. Scientific Reports, 2019, 9, 8167.	3.3	64
27	Visualizing Engrafted Human Cancer and Therapy Responses in Immunodeficient Zebrafish. Cell, 2019, 177, 1903-1914.e14.	28.9	188
28	Intestinal Serum amyloid A suppresses systemic neutrophil activation and bactericidal activity in response to microbiota colonization. PLoS Pathogens, 2019, 15, e1007381.	4.7	54
29	High fat diet induces microbiota-dependent silencing of enteroendocrine cells. ELife, 2019, 8, .	6.0	73
30	Zebrafish Transcription Factor ORFeome for Gene Discovery and Regulatory Network Elucidation. Zebrafish, 2018, 15, 202-205.	1.1	4
31	Pneumococcal Colonization and the Nasopharyngeal Microbiota of Children in Botswana. Pediatric Infectious Disease Journal, 2018, 37, 1176-1183.	2.0	11
32	An explant technique for high-resolution imaging and manipulation of mycobacterial granulomas. Nature Methods, 2018, 15, 1098-1107.	19.0	43
33	Deep phenotyping in zebrafish reveals genetic and diet-induced adiposity changes that may inform disease risk. Journal of Lipid Research, 2018, 59, 1536-1545.	4.2	13
34	A High-Throughput Organoid Microinjection Platform to Study Gastrointestinal Microbiota and Luminal Physiology. Cellular and Molecular Gastroenterology and Hepatology, 2018, 6, 301-319.	4.5	168
35	Integrative Physiology: At the Crossroads of Nutrition, Microbiota, Animal Physiology, and Human Health. Cell Metabolism, 2017, 25, 522-534.	16.2	108
36	Microbiota regulate intestinal epithelial gene expression by suppressing the transcription factor Hepatocyte nuclear factor 4 alpha. Genome Research, 2017, 27, 1195-1206.	5.5	101

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37	A classification system for zebrafish adipose tissues. DMM Disease Models and Mechanisms, 2017, 10, 797-809.	2.4	58
38	The Intestinal Microbiome and Childhood Obesity. Current Pediatrics Reports, 2017, 5, 150-155.	4.0	2
39	Microbial colonization is required for normal neurobehavioral development in zebrafish. Scientific Reports, 2017, 7, 11244.	3.3	91
40	The Nasopharyngeal Microbiota of Children With Respiratory Infections in Botswana. Pediatric Infectious Disease Journal, 2017, 36, e211-e218.	2.0	49
41	Dietary Regulation of Enteroendocrine Cell Function is Microbiota Dependent. Gastroenterology, 2017, 152, S824.	1.3	0
42	Elucidating the role of plexin D1 in body fat distribution and susceptibility to metabolic disease using a zebrafish model system. Adipocyte, 2017, 6, 277-283.	2.8	7
43	Genomic dissection of conserved transcriptional regulation in intestinal epithelial cells. PLoS Biology, 2017, 15, e2002054.	5.6	80
44	Genomic sequencing-based mutational enrichment analysis identifies motility genes in a genetically intractable gut microbe. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14127-14132.	7.1	10
45	The severity of nonalcoholic fatty liver disease is associated with gut dysbiosis and shift in the metabolic function of the gut microbiota. Hepatology, 2016, 63, 764-775.	7.3	1,029
46	Contribution of neutral processes to the assembly of gut microbial communities in the zebrafish over host development. ISME Journal, 2016, 10, 655-664.	9.8	627
47	The composition of the zebrafish intestinal microbial community varies across development. ISME Journal, 2016, 10, 644-654.	9.8	524
48	Got worms? Perinatal exposure to helminths prevents persistent immune sensitization and cognitive dysfunction induced by early-life infection. Brain, Behavior, and Immunity, 2016, 51, 14-28.	4.1	70
49	CPAG: software for leveraging pleiotropy in GWAS to reveal similarity between human traits links plasma fatty acids and intestinal inflammation. Genome Biology, 2015, 16, 190.	8.8	15
50	Baby, Itâ€™s Cold Outside: Host-Microbiota Relationships Drive Temperature Adaptations. Cell Host and Microbe, 2015, 18, 635-636.	11.0	11
51	Epigenetic control of intestinal barrier function and inflammation in zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2770-2775.	7.1	163
52	Plexin D1 determines body fat distribution by regulating the type V collagen microenvironment in visceral adipose tissue. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4363-4368.	7.1	61
53	Ontogenetic Differences in Dietary Fat Influence Microbiota Assembly in the Zebrafish Gut. MBio, 2015, 6, e00687-15.	4.1	101
54	Alteration of the rat cecal microbiome during colonization with the helminth<i>Hymenolepis diminuta</i>. Gut Microbes, 2015, 6, 182-193.	9.8	99

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55	Commensal microbiota stimulate systemic neutrophil migration through induction of Serum amyloid A. Cellular Microbiology, 2014, 16, 1053-1067.	2.1	91
56	Microbiota modulate transcription in the intestinal epithelium without remodeling the accessible chromatin landscape. Genome Research, 2014, 24, 1504-1516.	5.5	119
57	Zebrafish glafenine-intestinal injury is ameliorated by mu-opioid signaling via enhancement of Atf6-dependent cellular stress responses. DMM Disease Models and Mechanisms, 2013, 6, 146-59.	2.4	28
58	Animals in a bacterial world, a new imperative for the life sciences. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3229-3236.	7.1	2,181
59	Obese Humans With Nonalcoholic Fatty Liver Disease Display Alterations in Fecal Microbiota and Volatile Organic Compounds. Clinical Gastroenterology and Hepatology, 2013, 11, 876-878.	4.4	10
60	Carbon Monoxide and Heme Oxygenase-1 Prevent Intestinal Inflammation in Mice by Promoting Bacterial Clearance. Gastroenterology, 2013, 144, 789-798.	1.3	102
61	Microgavage of Zebrafish Larvae. Journal of Visualized Experiments, 2013, , e4434.	0.3	57
62	Getting the Inside Tract: New Frontiers in Zebrafish Digestive System Biology. Zebrafish, 2013, 10, 129-131.	1.1	17
63	Mucosal candidiasis elicits NF-Î°B activation, proinflammatory gene expression and localized neutrophilia in zebrafish. DMM Disease Models and Mechanisms, 2013, 6, 1260-70.	2.4	59
64	Oesophageal and sternohyal muscle fibres are novel Pax3-dependent migratory somite derivatives essential for ingestion. Development (Cambridge), 2013, 140, 2972-2984.	2.5	32
65	Oesophageal and sternohyal muscle fibres are novel Pax3-dependent migratory somite derivatives essential for ingestion. Development (Cambridge), 2013, 140, 4296-4296.	2.5	5
66	Aquacultured Rainbow Trout (Oncorhynchus mykiss) Possess a Large Core Intestinal Microbiota That Is Resistant to Variation in Diet and Rearing Density. Applied and Environmental Microbiology, 2013, 79, 4974-4984.	3.1	191
67	Dwarfism and Increased Adiposity in the gh1 Mutant Zebrafish vizzini. Endocrinology, 2013, 154, 1476-1487.	2.8	71
68	Zebrafish as a model to analyze macromolecule absorption in intestinal enterocytes. FASEB Journal, 2013, 27, 1148.23.	0.5	0
69	Intronic Cis-Regulatory Modules Mediate Tissue-Specific and Microbial Control of angptl4/fiaf Transcription. PLoS Genetics, 2012, 8, e1002585.	3.5	44
70	Increased rectal microbial richness is associated with the presence of colorectal adenomas in humans. ISME Journal, 2012, 6, 1858-1868.	9.8	195
71	Microbiota Regulate Intestinal Absorption and Metabolism of Fatty Acids in the Zebrafish. Cell Host and Microbe, 2012, 12, 277-288.	11.0	717
72	Intestinal microbiota composition in fishes is influenced by host ecology and environment. Molecular Ecology, 2012, 21, 3100-3102.	3.9	209

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73	Study of Hostâ€"Microbe Interactions in Zebrafish. Methods in Cell Biology, 2011, 105, 87-116.	1.1	110
74	In vivo Analysis of White Adipose Tissue in Zebrafish. Methods in Cell Biology, 2011, 105, 63-86.	1.1	52
75	The Neuropeptide DALDA Protects Against NSAID-Induced Acute Intestinal Injury in Zebrafish Larvae. Gastroenterology, 2011, 140, S-474.	1.3	1
76	Microbial Colonization Induces Dynamic Temporal and Spatial Patterns of NF-Î°B Activation in the Zebrafish Digestive Tract. Gastroenterology, 2011, 141, 197-207.	1.3	213
77	Heme oxygenase-1 expression and function is protective against innate immune responses to the enteric microbiota. Inflammatory Bowel Diseases, 2011, 17, S66.	1.9	0
78	Evidence for a core gut microbiota in the zebrafish. ISME Journal, 2011, 5, 1595-1608.	9.8	990
79	Hostâ€"microbe interactions in the developing zebrafish. Current Opinion in Immunology, 2010, 22, 10-19.	5.5	214
80	Molecular characterization of mucosal adherent bacteria and associations with colorectal adenomas. Gut Microbes, 2010, 1, 138-147.	9.8	355
81	Tuberculous Granuloma Induction via Interaction of a Bacterial Secreted Protein with Host Epithelium. Science, 2010, 327, 466-469.	12.6	413
82	Ontogeny and nutritional control of adipogenesis in zebrafish (Danio rerio). Journal of Lipid Research, 2009, 50, 1641-1652.	4.2	197
83	Patterns and Scales in Gastrointestinal Microbial Ecology. Gastroenterology, 2009, 136, 1989-2002.	1.3	84
84	Methods for generating and colonizing gnotobiotic zebrafish. Nature Protocols, 2008, 3, 1862-1875.	12.0	181
85	A systems biology approach for the validation of eQTL in obesity. FASEB Journal, 2008, 22, 798.8.	0.5	0
86	In vivo imaging and genetic analysis link bacterial motility and symbiosis in the zebrafish gut. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7622-7627.	7.1	154
87	Enteric Infection and Inflammation Alter Gut Microbial Ecology. Cell Host and Microbe, 2007, 2, 73-74.	11.0	25
88	Reciprocal Gut Microbiota Transplants from Zebrafish and Mice to Germ-free Recipients Reveal Host Habitat Selection. Cell, 2006, 127, 423-433.	28.9	808
89	From The Cover: Gnotobiotic zebrafish reveal evolutionarily conserved responses to the gut microbiota. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4596-4601.	7.1	840
90	Temporal and molecular separation of the kit receptor tyrosine kinase's roles in zebrafish melanocyte migration and survival. Developmental Biology, 2003, 262, 152-161.	2.0	66

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91	Coupled Mutagenesis Screens and Genetic Mapping in Zebrafish. Genetics, 2003, 163, 997-1009.	2.9	43
92	How the Zebrafish Gets Its Stripes. Developmental Biology, 2001, 240, 301-314.	2.0	144
93	Requirements for the kit receptor tyrosine kinase during regeneration of zebrafish fin melanocytes. Development (Cambridge), 2001, 128, 1943-1949.	2.5	63
94	Mutational Analysis of Endothelin Receptor b1 (rose) during Neural Crest and Pigment Pattern Development in the Zebrafish Danio rerio. Developmental Biology, 2000, 227, 294-306.	2.0	209
95	SCAR, a WASP-related Protein, Isolated as a Suppressor of Receptor Defects in Late Dictyostelium Development. Journal of Cell Biology, 1998, 142, 1325-1335.	5.2	259