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	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
2	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
3	Evidence for a core gut microbiota in the zebrafish. ISME Journal, 2011, 5, 1595-1608.	9.8	990
4	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
5	Reciprocal Gut Microbiota Transplants from Zebrafish and Mice to Germ-free Recipients Reveal Host Habitat Selection. Cell, 2006, 127, 423-433.	28.9	808
6	Microbiota Regulate Intestinal Absorption and Metabolism of Fatty Acids in the Zebrafish. Cell Host and Microbe, 2012, 12, 277-288.	11.0	717
7	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
8	The composition of the zebrafish intestinal microbial community varies across development. ISME Journal, 2016, 10, 644-654.	9.8	524
9	Tuberculous Granuloma Induction via Interaction of a Bacterial Secreted Protein with Host Epithelium. Science, 2010, 327, 466-469.	12.6	413
10	Molecular characterization of mucosal adherent bacteria and associations with colorectal adenomas. Gut Microbes, 2010, 1, 138-147.	9.8	355
11	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
12	Hostâ€“microbe interactions in the developing zebrafish. Current Opinion in Immunology, 2010, 22, 10-19.	5.5	214
13	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
14	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
15	Intestinal microbiota composition in fishes is influenced by host ecology and environment. Molecular Ecology, 2012, 21, 3100-3102.	3.9	209
16	Ontogeny and nutritional control of adipogenesis in zebrafish (Danio rerio). Journal of Lipid Research, 2009, 50, 1641-1652.	4.2	197
17	Increased rectal microbial richness is associated with the presence of colorectal adenomas in humans. ISME Journal, 2012, 6, 1858-1868.	9.8	195
18	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

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19	Visualizing Engrafted Human Cancer and Therapy Responses in Immunodeficient Zebrafish. Cell, 2019, 177, 1903-1914.e14.	28.9	188
20	Methods for generating and colonizing gnotobiotic zebrafish. Nature Protocols, 2008, 3, 1862-1875.	12.0	181
21	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
22	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
23	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
24	How the Zebrafish Gets Its Stripes. Developmental Biology, 2001, 240, 301-314.	2.0	144
25	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
26	Microbiota modulate transcription in the intestinal epithelium without remodeling the accessible chromatin landscape. Genome Research, 2014, 24, 1504-1516.	5.5	119
27	Study of Hostâ€“Microbe Interactions in Zebrafish. Methods in Cell Biology, 2011, 105, 87-116.	1.1	110
28	Integrative Physiology: At the Crossroads of Nutrition, Microbiota, Animal Physiology, and Human Health. Cell Metabolism, 2017, 25, 522-534.	16.2	108
29	Carbon Monoxide and Heme Oxygenase-1 Prevent Intestinal Inflammation in Mice by Promoting Bacterial Clearance. Gastroenterology, 2013, 144, 789-798.	1.3	102
30	Ontogenetic Differences in Dietary Fat Influence Microbiota Assembly in the Zebrafish Gut. MBio, 2015, 6, e00687-15.	4.1	101
31	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
32	Alteration of the rat cecal microbiome during colonization with the helminthHymenolepis diminuta. Gut Microbes, 2015, 6, 182-193.	9.8	99
33	Commensal microbiota stimulate systemic neutrophil migration through induction of Serum amyloid A. Cellular Microbiology, 2014, 16, 1053-1067.	2.1	91
34	Microbial colonization is required for normal neurobehavioral development in zebrafish. Scientific Reports, 2017, 7, 11244.	3.3	91
35	Patterns and Scales in Gastrointestinal Microbial Ecology. Gastroenterology, 2009, 136, 1989-2002.	1.3	84
36	Genomic dissection of conserved transcriptional regulation in intestinal epithelial cells. PLoS Biology, 2017, 15, e2002054.	5.6	80

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37	Lysosome-Rich Enterocytes Mediate Protein Absorption in the Vertebrate Gut. Developmental Cell, 2019, 51, 7-20.e6.	7.0	74
38	High fat diet induces microbiota-dependent silencing of enteroendocrine cells. ELife, 2019, 8, .	6.0	73
39	Dwarfism and Increased Adiposity in the gh1 Mutant Zebrafish vizzini. Endocrinology, 2013, 154, 1476-1487.	2.8	71
40	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
41	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
42	Disrupted Maturation of the Microbiota and Metabolome among Extremely Preterm Infants with Postnatal Growth Failure. Scientific Reports, 2019, 9, 8167.	3.3	64
43	Requirements for the kit receptor tyrosine kinase during regeneration of zebrafish fin melanocytes. Development (Cambridge), 2001, 128, 1943-1949.	2.5	63
44	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
45	Mucosal candidiasis elicits NF-Î¹B activation, proinflammatory gene expression and localized neutrophilia in zebrafish. DMM Disease Models and Mechanisms, 2013, 6, 1260-70.	2.4	59
46	A classification system for zebrafish adipose tissues. DMM Disease Models and Mechanisms, 2017, 10, 797-809.	2.4	58
47	Microgavage of Zebrafish Larvae. Journal of Visualized Experiments, 2013, , e4434.	0.3	57
48	Intestinal Serum amyloid A suppresses systemic neutrophil activation and bactericidal activity in response to microbiota colonization. PLoS Pathogens, 2019, 15, e1007381.	4.7	54
49	In vivo Analysis of White Adipose Tissue in Zebrafish. Methods in Cell Biology, 2011, 105, 63-86.	1.1	52
50	Commensal Microbiota Regulate Vertebrate Innate Immunity-Insights From the Zebrafish. Frontiers in Immunology, 2019, 10, 2100.	4.8	51
51	The Nasopharyngeal Microbiota of Children With Respiratory Infections in Botswana. Pediatric Infectious Disease Journal, 2017, 36, e211-e218.	2.0	49
52	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
53	Acoustofluidic rotational tweezing enables high-speed contactless morphological phenotyping of zebrafish larvae. Nature Communications, 2021, 12, 1118.	12.8	49
54	Intronic Cis-Regulatory Modules Mediate Tissue-Specific and Microbial Control of angptl4/fiaf Transcription. PLoS Genetics, 2012, 8, e1002585.	3.5	44

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55	An explant technique for high-resolution imaging and manipulation of mycobacterial granulomas. Nature Methods, 2018, 15, 1098-1107.	19.0	43
56	Fxr signaling and microbial metabolism of bile salts in the zebrafish intestine. Science Advances, 2021, 7, .	10.3	43
57	Coupled Mutagenesis Screens and Genetic Mapping in Zebrafish. Genetics, 2003, 163, 997-1009.	2.9	43
58	Conserved anti-inflammatory effects and sensing of butyrate in zebrafish. Gut Microbes, 2020, 12, 1824563.	9.8	41
59	RSPO3 impacts body fat distribution and regulates adipose cell biology in vitro. Nature Communications, 2020, 11, 2797.	12.8	34
60	Oesophageal and sternohyal muscle fibres are novel Pax3-dependent migratory somite derivatives essential for ingestion. Development (Cambridge), 2013, 140, 2972-2984.	2.5	32
61	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
62	Transcriptional programmes underlying cellular identity and microbial responsiveness in the intestinal epithelium. Nature Reviews Gastroenterology and Hepatology, 2021, 18, 7-23.	17.8	28
63	Enteric Infection and Inflammation Alter Gut Microbial Ecology. Cell Host and Microbe, 2007, 2, 73-74.	11.0	25
64	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
65	The Pediatric Obesity Microbiome and Metabolism Study (POMMS): Methods, Baseline Data, and Early Insights. Obesity, 2021, 29, 569-578.	3.0	19
66	Getting the Inside Tract: New Frontiers in Zebrafish Digestive System Biology. Zebrafish, 2013, 10, 129-131.	1.1	17
67	Single-cell imaging of T cell immunotherapy responses in vivo. Journal of Experimental Medicine, 2021, 218, .	8.5	16
68	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
69	Single-cell imaging of human cancer xenografts using adult immunodeficient zebrafish. Nature Protocols, 2020, 15, 3105-3128.	12.0	14
70	Non-diphtheriae Corynebacterium species are associated with decreased risk of pneumococcal colonization during infancy. ISME Journal, 2022, 16, 655-665.	9.8	14
71	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
72	Commensal Bacteria Regulate Gene Expression and Differentiation in Vertebrate Olfactory Systems Through Transcription Factor REST. Chemical Senses, 2019, 44, 615-630.	2.0	13

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73	The emergence of microbiome centres. Nature Microbiology, 2020, 5, 2-3.	13.3	13
74	Baby, Itâ€™s Cold Outside: Host-Microbiota Relationships Drive Temperature Adaptations. Cell Host and Microbe, 2015, 18, 635-636.	11.0	11
75	Pneumococcal Colonization and the Nasopharyngeal Microbiota of Children in Botswana. Pediatric Infectious Disease Journal, 2018, 37, 1176-1183.	2.0	11
76	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
77	Microbial influences on gut development and gut-brain communication. Development (Cambridge), 2021, 148, .	2.5	11
78	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
79	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
80	Starvation causes changes in the intestinal transcriptome and microbiome that are reversed upon refeeding. BMC Genomics, 2022, 23, 225.	2.8	10
81	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
82	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
83	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
84	Using zebrafish to understand reciprocal interactions between the nervous and immune systems and the microbial world. Journal of Neuroinflammation, 2022, 19, .	7.2	8
85	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
86	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
87	Oesophageal and sternohyal muscle fibres are novel Pax3-dependent migratory somite derivatives essential for ingestion. Development (Cambridge), 2013, 140, 4296-4296.	2.5	5
88	Zebrafish Transcription Factor ORFeome for Gene Discovery and Regulatory Network Elucidation. Zebrafish, 2018, 15, 202-205.	1.1	4
89	The Intestinal Microbiome and Childhood Obesity. Current Pediatrics Reports, 2017, 5, 150-155.	4.0	2
90	The Neuropeptide DALDA Protects Against NSAID-Induced Acute Intestinal Injury in Zebrafish Larvae. Gastroenterology, 2011, 140, S-474.	1.3	1

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91	Advanced Obesity Treatment Selection among Adolescents in a Pediatric Weight Management Program. Childhood Obesity, 2022, 18, 237-245.	1.5	1
92	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
93	Dietary Regulation of Enteroendocrine Cell Function is Microbiota Dependent. Gastroenterology, 2017, 152, S824.	1.3	0
94	A systems biology approach for the validation of eQTL in obesity. FASEB Journal, 2008, 22, 798.8.	0.5	0
95	Zebrafish as a model to analyze macromolecule absorption in intestinal enterocytes. FASEB Journal, 2013, 27, 1148.23.	0.5	0