Jonathan Swann

List of Publications by Year
in descending order

115 papers	9,060 citations	70961 41 h-index	46693 89 g-index
131 all docs	131 docs citations	131 times ranked	13004 citing authors

#	Article	IF	Citations
1	Gut microbiota functions: metabolism of nutrients and other food components. European Journal of Nutrition, 2018, 57, 1-24.	1.8	1,608
2	The short-chain fatty acid acetate reduces appetite via a central homeostatic mechanism. Nature Communications, 2014, 5, 3611.	5.8	1,129
3	The International Scientific Association of Probiotics and Prebiotics (ISAPP) consensus statement on the definition and scope of postbiotics. Nature Reviews Gastroenterology and Hepatology, 2021, 18, 649-667.	8.2	701
4	Systemic gut microbial modulation of bile acid metabolism in host tissue compartments. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4523-4530.	3.3	625
5	Hippurate: The Natural History of a Mammalianâ€“Microbial Cometabolite. Journal of Proteome Research, 2013, 12, 1527-1546.	1.8	263
6	Probiotic Administration Attenuates Myocardial Hypertrophy and Heart Failure After Myocardial Infarction in the Rat. Circulation: Heart Failure, 2014, 7, 491-499.	1.6	231
7	Longitudinal Multi-omics Reveals Subset-Specific Mechanisms Underlying Irritable Bowel Syndrome. Cell, 2020, 182, 1460-1473.e17.	13.5	217
8	Small intestinal microbial dysbiosis underlies symptoms associated with functional gastrointestinal disorders. Nature Communications, 2019, 10, 2012.	5.8	168
9	Biomarkers of Environmental Enteropathy, Inflammation, Stunting, and Impaired Growth in Children in Northeast Brazil. PLoS ONE, 2016, 11, e0158772.	1.1	164
10	Gut microbial metabolites in depression: understanding the biochemical mechanisms. Microbial Cell, 2019, 6, 454-481.	1.4	161
11	Systematic review of the effects of the intestinal microbiota on selected nutrients and non-nutrients. European Journal of Nutrition, 2018, 57, 25-49.	1.8	143
12	Faecal virome transplantation decreases symptoms of type 2 diabetes and obesity in a murine model. Gut, 2020, 69, 2122-2130.	6.1	142
13	Targeted inhibition of gut bacterial Î²-glucuronidase activity enhances anticancer drug efficacy. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7374-7381.	3.3	121
14	Microbiota Supplementation with Bifidobacterium and Lactobacillus Modifies the Preterm Infant Gut Microbiota and Metabolome: An Observational Study. Cell Reports Medicine, 2020, 1, 100077.	3.3	119
15	Variation in Antibiotic-Induced Microbial Recolonization Impacts on the Host Metabolic Phenotypes of Rats. Journal of Proteome Research, 2011, 10, 3590-3603.	1.8	114
16	Antigen-presenting ILC3 regulate T cellâ€“dependent IgA responses to colonic mucosal bacteria. Journal of Experimental Medicine, 2019, 216, 728-742.	4.2	113
17	Efficacy of increased resistant starch consumption in human type 2 diabetes. Endocrine Connections, 2014, 3, 75-84.	0.8	104
18	An in vivo assessment of the cholesterol-lowering efficacy of Lactobacillus plantarum ECGC 13110402 in normal to mildly hypercholesterolaemic adults. PLoS ONE, 2017, 12, e0187964.	1.1	99

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19	Para-cresol production by Clostridium difficile affects microbial diversity and membrane integrity of Gram-negative bacteria. PLoS Pathogens, 2018, 14, e1007191.	2.1	98
20	In vitrofermentation of B-GOS: impact on faecal bacterial populations and metabolic activity in autistic and non-autistic children. FEMS Microbiology Ecology, 2017, 93, fiw233.	1.3	90
21	Inferring Metabolic Mechanisms of Interaction within a Defined Gut Microbiota. Cell Systems, 2018, 7, 245-257.e7.	2.9	89
22	Protein- and zinc-deficient diets modulate the murine microbiome and metabolic phenotype. American Journal of Clinical Nutrition, 2016, 104, 1253-1262.	2.2	83
23	Fecal microbiota and bile acid interactions with systemic and adipose tissue metabolism in diet-induced weight loss of obese postmenopausal women. Journal of Translational Medicine, 2018, 16, 244.	1.8	78
24	The impact of oligofructose on stimulation of gut hormones, appetite regulation and adiposity. Obesity, 2014, 22, 1430-1438.	1.5	73
25	Ultrahigh-Performance Liquid Chromatography Tandem Mass Spectrometry with Electrospray Ionization Quantification of Tryptophan Metabolites and Markers of Gut Health in Serum and Plasmaâ€"Application to Clinical and Epidemiology Cohorts. Analytical Chemistry, 2019, 91, 5207-5216.	3.2	72
26	Gut microbiota steroid sexual dimorphism and its impact on gonadal steroids: influences of obesity and menopausal status. Microbiome, 2020, 8, 136.	4.9	72
27	Small talk: microbial metabolites involved in the signaling from microbiota to brain. Current Opinion in Pharmacology, 2019, 48, 99-106.	1.7	69
28	Cross-modulation of pathogen-specific pathways enhances malnutrition during enteric co-infection with Giardia lamblia and enteroaggregative Escherichia coli. PLoS Pathogens, 2017, 13, e1006471.	2.1	68
29	Differential Effects of Two Fermentable Carbohydrates on Central Appetite Regulation and Body Composition. PLoS ONE, 2012, 7, e43263.	1.1	66
30	Systems-level metabolism of the altered Schaedler flora, a complete gut microbiota. ISME Journal, 2017, 11, 426-438.	4.4	60
31	Metabolic phenotyping reveals a reduction in the bioavailability of serotonin and kynurenine pathway metabolites in both the urine and serum of individuals living with Alzheimerâ€™s disease. Alzheimer's Research and Therapy, 2021, 13, 20.	3.0	60
32	Gut microbiome modulates the toxicity of hydrazine: a metabonomic study. Molecular BioSystems, 2009, 5, 351.	2.9	59
33	Mycoprotein reduces energy intake and postprandial insulin release without altering glucagon-like peptide-1 and peptide tyrosine-tyrosine concentrations in healthy overweight and obese adults: a randomised-controlled trial. British Journal of Nutrition, 2016, 116, 360-374.	1.2	58
34	Urinary N-methylnicotinamide and Î²-aminoisobutyric acid predict catch-up growth in undernourished Brazilian children. Scientific Reports, 2016, 6, 19780.	1.6	56
35	A novel mouse model of Campylobacter jejuni enteropathy and diarrhea. PLoS Pathogens, 2018, 14, e1007083.	2.1	55
36	Identification of metabolites in human hepatic bile using 800 MHz 1H NMR spectroscopy , HPLC-NMR/MS and UPLC-MS. Molecular BioSystems, 2009, 5, 180-190.	2.9	53

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37	Metabolic phenotyping of malnutrition during the first 1000Âdays of life. European Journal of Nutrition, 2019, 58, 909-930.	1.8	48
38	Enhanced exercise and regenerative capacity in a mouse model that violates size constraints of oxidative muscle fibres. ELife, 2016, 5, .	2.8	47
39	Microbialâ€“Mammalian Cometabolites Dominate the Age-associated Urinary Metabolic Phenotype in Taiwanese and American Populations. Journal of Proteome Research, 2013, 12, 3166-3180.	1.8	46
40	Modelling the role of microbial p-cresol in colorectal genotoxicity. Gut Microbes, 2019, 10, 398-411.	4.3	46
41	Nutrimetabonomics:Applications for Nutritional Sciences, with Specific Reference to Gut Microbial Interactions. Annual Review of Food Science and Technology, 2013, 4, 381-399.	5.1	45
42	Integrated Cytokine and Metabolic Analysis of Pathological Responses to Parasite Exposure in Rodents. Journal of Proteome Research, 2010, 9, 2255-2264.	1.8	42
43	Fermentation properties and potential prebiotic activity of Bimuno^{Â®}galacto-oligosaccharide (65 % galacto-oligosaccharide content) onin vitrogut microbiota parameters. British Journal of Nutrition, 2016, 116, 480-486.	1.2	42
44	Immunomodulatory and Prebiotic Effects of 2â€²-Fucosyllactose in Suckling Rats. Frontiers in Immunology, 2019, 10, 1773.	2.2	40
45	Age and Microenvironment Outweigh Genetic Influence on the Zucker Rat Microbiome. PLoS ONE, 2014, 9, e100916.	1.1	40
46	Chemotherapyâ€induced cachexia dysregulates hypothalamic and systemic lipoamines and is attenuated by cannabigerol. Journal of Cachexia, Sarcopenia and Muscle, 2019, 10, 844-859.	2.9	39
47	Anionic metabolic profiling of urine from antibiotic-treated rats by capillary electrophoresisâ€“mass spectrometry. Analytical and Bioanalytical Chemistry, 2013, 405, 2585-2594.	1.9	38
48	In Vitro Modeling of Bile Acid Processing by the Human Fecal Microbiota. Frontiers in Microbiology, 2018, 9, 1153.	1.5	36
49	A murine model of diarrhea, growth impairment and metabolic disturbances withShigella flexneriinfection and the role of zinc deficiency. Gut Microbes, 2019, 10, 615-630.	4.3	36
50	A Two-Way Interaction between Methotrexate and the Gut Microbiota of Male Sprague–Dawley Rats. Journal of Proteome Research, 2020, 19, 3326-3339.	1.8	35
51	A comparison of collision cross section values obtained via travelling wave ion mobility-mass spectrometry and ultra high performance liquid chromatography-ion mobility-mass spectrometry: Application to the characterisation of metabolites in rat urine. Journal of Chromatography A, 2019, 1602, 386-396.	1.8	34
52	Developmental Signatures of Microbiota-Derived Metabolites in the Mouse Brain. Metabolites, 2020, 10, 172.	1.3	34
53	Characterizing the metabolic phenotype of intestinal villus blunting in Zambian children with severe acute malnutrition and persistent diarrhea. PLoS ONE, 2018, 13, e0192092.	1.1	33
54	Dominant components of the <scp>T</scp>horoughbred metabolome characterised by ¹<scp>H</scp>â€nuclear magnetic resonance spectroscopy: A metabolite atlas of common biofluids. Equine Veterinary Journal, 2015, 47, 721-730.	0.9	30

#	Article	IF	Citations
55	Maternal Weaning Modulates Emotional Behavior and Regulates the Gut-Brain Axis. Scientific Reports, 2016, 6, 21958.	1.6	29
56	Impacts of Plant-Based Foods in Ancestral Hominin Diets on the Metabolism and Function of Gut Microbiota In Vitro. MBio, 2014, 5, e00853-14.	1.8	27
57	Impact of different hypercaloric diets on obesity features in rats: a metagenomics and metabolomics integrative approach. Journal of Nutritional Biochemistry, 2019, 71, 122-131.	1.9	26
58	Enteropathogenic Escherichia coli Infection Induces Diarrhea, Intestinal Damage, Metabolic Alterations, and Increased Intestinal Permeability in a Murine Model. Frontiers in Cellular and Infection Microbiology, 2020, 10, 595266.	1.8	26
59	Application of 1 H NMR spectroscopy to the metabolic phenotyping of rodent brain extracts: A metabonomic study of gut microbial influence on host brain metabolism. Journal of Pharmaceutical and Biomedical Analysis, 2017, 143, 141-146.	1.4	24
60	Reply to: Postbiotics â€" when simplification fails to clarify. Nature Reviews Gastroenterology and Hepatology, 2021, 18, 827-828.	8.2	24
61	Health Outcomes, Pathogenesis and Epidemiology of Severe Acute Malnutrition (HOPE-SAM): rationale and methods of a longitudinal observational study. BMJ Open, 2019, 9, e023077.	0.8	22
62	Gut microbiome communication with bone marrow regulates susceptibility to amebiasis. Journal of Clinical Investigation, 2020, 130, 4019-4024.	3.9	22
63	Effects of improved water, sanitation, and hygiene and improved complementary feeding on environmental enteric dysfunction in children in rural Zimbabwe: AÂcluster-randomized controlled trial. PLoS Neglected Tropical Diseases, 2020, 14, e0007963.	1.3	21
64	Harnessing microbiome and probiotic research in sub-Saharan Africa: recommendations from an African workshop. Microbiome, 2014, 2, 12.	4.9	20
65	Metabolic targets of watercress and PEITC in MCF-7 and MCF-10A cells explain differential sensitisation responses to ionising radiation. European Journal of Nutrition, 2019, 58, 2377-2391.	1.8	20
66	Tryptophan, glutamine, leucine, and micronutrient supplementation improves environmental enteropathy in Zambian adults: a randomized controlled trial. American Journal of Clinical Nutrition, 2019, 110, 1240-1252.	2.2	20
67	Modeling Enteropathy or Diarrhea with the Top Bacterial and Protozoal Pathogens: Differential Determinants of Outcomes. ACS Infectious Diseases, 2021, 7, 1020-1031.	1.8	20
68	Metabolic phenotyping of opioid and psychostimulant addiction: A novel approach for biomarker discovery and biochemical understanding of the disorder. British Journal of Pharmacology, 2022, 179, 1578-1606.	2.7	19
69	Investigating mechanisms underpinning the detrimental impact of a high-fat diet in the developing and adult hypermuscular myostatin null mouse. Skeletal Muscle, 2015, 5, 38.	1.9	18
70	Kiwifruit fermentation drives positive gut microbial and metabolic changes irrespective of initial microbiota composition. Bioactive Carbohydrates and Dietary Fibre, 2015, 6, 37-45.	1.5	18
71	Exploration of the Fecal Microbiota and Biomarker Discovery in Equine Grass Sickness. Journal of Proteome Research, 2018, 17, 1120-1128.	1.8	18
72	The Aging Imageomics Study: rationale, design and baseline characteristics of the study population. Mechanisms of Ageing and Development, 2020, 189, 111257.	2.2	18

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73	Association between urinary metabolic profile and the intestinal effects of cocoa in rats. British Journal of Nutrition, 2017, 117, 623-634.	1.2	17
74	Early Life Interventions for Childhood Growth and Development in Tanzania (ELICIT): a protocol for a randomised factorial, double-blind, placebo-controlled trial of azithromycin, nitazoxanide and nicotinamide. BMJ Open, 2018, 8, e021817.	0.8	17
75	Batch effect exerts a bigger influence on the rat urinary metabolome and gut microbiota than uraemia: a cautionary tale. Microbiome, 2019, 7, 127.	4.9	17
76	Chronic sleep restriction in the rotenone Parkinsonâ€™s disease model in rats reveals peripheral early-phase biomarkers. Scientific Reports, 2019, 9, 1898.	1.6	17
77	Characterizing the breast cancer lipidome and its interaction with the tissue microbiota. Communications Biology, 2021, 4, 1229.	2.0	17
78	Increased Urinary Trimethylamine N-Oxide Following Cryptosporidium Infection and Protein Malnutrition Independent of Microbiome Effects. Journal of Infectious Diseases, 2017, 216, 64-71.	1.9	16
79	Biomarkers of environmental enteric dysfunction are not consistently associated with linear growth velocity in rural Zimbabwean infants. American Journal of Clinical Nutrition, 2021, 113, 1185-1198.	2.2	16
80	Metabolomic signatures associated with depression and predictors of antidepressant response in humans: A CAN-BIND-1 report. Communications Biology, 2021, 4, 903.	2.0	16
81	Nutrimetabonomics: Nutritional Applications of Metabolic Profiling. Science Progress, 2014, 97, 41-47.	1.0	15
82	Attenuation of oxidative stress-induced lesions in skeletal muscle in a mouse model of obesity-independent hyperlipidaemia and atherosclerosis through the inhibition of Nox2 activity. Free Radical Biology and Medicine, 2018, 129, 504-519.	1.3	15
83	Consumer Safety Considerations of Skin and Oral Microbiome Perturbation. Clinical Microbiology Reviews, 2019, 32, .	5.7	15
84	Exploration of the microbiota and metabolites within body fluids could pinpoint novel disease mechanisms. FEBS Journal, 2020, 287, 856-865.	2.2	14
85	The Mycotoxin Deoxynivalenol Significantly Alters the Function and Metabolism of Bovine Kidney Epithelial Cells In Vitro. Toxins, 2019, 11, 554.	1.5	13
86	Influence of the Human Gut Microbiome on the Metabolic Phenotype. , 2019, , 535-560.		13
87	Hydrophilic interaction chromatographyâ€“mass spectrometry for anionic metabolic profiling of urine from antibiotic-treated rats. Journal of Pharmaceutical and Biomedical Analysis, 2014, 92, 98-104.	1.4	11
88	l-rhamnose as a source of colonic propionate inhibits insulin secretion but does not influence measures of appetite or food intake. Appetite, 2016, 98, 142-149.	1.8	11
89	Symmorphosis through Dietary Regulation: A Combinatorial Role for Proteolysis, Autophagy and Protein Synthesis in Normalising Muscle Metabolism and Function of Hypertrophic Mice after Acute Starvation. PLoS ONE, 2015, 10, e0120524.	1.1	10
90	Characterizing the metabolic perturbations induced by activity-based anorexia in the C57Bl/6 mouse using 1H NMR spectroscopy. Clinical Nutrition, 2020, 39, 2428-2434.	2.3	10

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91	Effect of scheduled antimicrobial and nicotinamide treatment on linear growth in children in rural Tanzania: A factorial randomized, double-blind, placebo-controlled trial. PLoS Medicine, 2021, 18, e1003617.	3.9	10
92	Maternal exposure to a human relevant mixture of persistent organic pollutants reduces colorectal carcinogenesis in A/J Min/+ mice. Chemosphere, 2020, 252, 126484.	4.2	8
93	Post-weaning A1/A2 Î²-casein milk intake modulates depressive-like behavior, brain Î¼-opioid receptors, and the metabolome of rats. IScience, 2021, 24, 103048.	1.9	8
94	â€œBowel on the Benchâ€: Proof of Concept of a Three-Stage, In Vitro Fermentation Model of the Equine Large Intestine. Applied and Environmental Microbiology, 2019, 86, .	1.4	7
95	The APOA1bpâ€“SREBFâ€“NOTCH axis is associated with reduced atherosclerosis risk in morbidly obese patients. Clinical Nutrition, 2020, 39, 3408-3418.	2.3	7
96	A targeted ultra performance liquid chromatography â€“ Tandem mass spectrometric assay for tyrosine and metabolites in urine and plasma: Application to the effects of antibiotics on mice. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2021, 1164, 122511.	1.2	7
97	Postnatal prebiotic supplementation in rats affects adult anxious behaviour, hippocampus, electrophysiology, metabolomics, and gut microbiota. IScience, 2021, 24, 103113.	1.9	7
98	Baseline Characteristics of Study Participants in the Early Life Interventions for Childhood Growth and Development in Tanzania (ELICIT) Trial. American Journal of Tropical Medicine and Hygiene, 2020, 103, 1397-1404.	0.6	7
99	Microbe-Immune Crosstalk: Evidence That T Cells Influence the Development of the Brain Metabolome. International Journal of Molecular Sciences, 2022, 23, 3259.	1.8	7
100	Biology of the Microbiome 2. Gastroenterology Clinics of North America, 2017, 46, 37-47.	1.0	6
101	Obesity and Cage Environment Modulate Metabolism in the Zucker Rat: A Multiple Biological Matrix Approach to Characterizing Metabolic Phenomena. Journal of Proteome Research, 2019, 18, 2160-2174.	1.8	6
102	LowAMY1Copy Number Is Crossâ€Sectionally Associated to an Inflammationâ€Related Lipidomics Signature in Overweight and Obese Individuals. Molecular Nutrition and Food Research, 2020, 64, 1901151.	1.5	6
103	Microbiomes in physiology: insights into 21stâ€century global medical challenges. Experimental Physiology, 2022, 107, 257-264.	0.9	6
104	Hay versus haylage: Forage type influences the equine urinary metabonome and faecal microbiota. Equine Veterinary Journal, 2022, 54, 614-625.	0.9	5
105	Characterizing the Biochemical Response to Schistosoma mansoni Infection and Treatment with Praziquantel in Preschool and School Aged Children. Journal of Proteome Research, 2018, 17, 2028-2033.	1.8	4
106	Gut Microbial and Metabolic Profiling Reveal the Lingering Effects of Infantile Iron Deficiency Unless Treated with Iron. Molecular Nutrition and Food Research, 2021, 65, e2001018.	1.5	4
107	An In Vitro Pilot Fermentation Study on the Impact of Chlorella pyrenoidosa on Gut Microbiome Composition and Metabolites in Healthy and Coeliac Subjects. Molecules, 2021, 26, 2330.	1.7	4
108	Penalized regression models to select biomarkers of environmental enteric dysfunction associated with linear growth acquisition in a Peruvian birth cohort. PLoS Neglected Tropical Diseases, 2019, 13, e0007851.	1.3	3

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109	Intervention and Mechanisms of Alanylâ€glutamine for Inflammation, Nutrition, and Enteropathy. Journal of Pediatric Gastroenterology and Nutrition, 2020, 71, 393-400.	0.9	3
110	Associations between biomarkers of environmental enteric dysfunction and oral rotavirus vaccine immunogenicity in rural Zimbabwean infants. EClinicalMedicine, 2021, 41, 101173.	3.2	3
111	The effect of a hydrolyzed protein diet on the fecal microbiota in cats with chronic enteropathy. Scientific Reports, 2022, 12, 2746.	1.6	3
112	Editorial overview: CNS diseases and the microbiome. Current Opinion in Pharmacology, 2019, 48, x-xii.	1.7	2
113	Novel Relationship Between Plasmalogen Lipid Signatures and Carnosine in Humans. Molecular Nutrition and Food Research, 2021, 65, 2100164.	1.5	2
114	Targeting microbial metabolites to treat autism. Nature Medicine, 2022, 28, 448-450.	15.2	2
115	Decoding Hidden Messages: Can Fecal Host Transcriptomics Open Pathways to Understanding Environmental Enteropathy?. Cellular and Molecular Gastroenterology and Hepatology, 2016, 2, 114-115.	2.3	0