Jonathan Swann

List of Publications by Citations

113 papers	5,281 citations	36 h-index	71 g-index
131 ext. papers	7,270 ext. citations	7.9 avg, IF	5.87 L-index

#	Paper	IF	Citations
113	Gut microbiota functions: metabolism of nutrients and other food components. *European Journal of Nutrition*, **2018**, 57, 1-24	5.2	857
112	The short-chain fatty acid acetate reduces appetite via a central homeostatic mechanism. *Nature Communications*, **2014**, 5, 3611	17.4	781
111	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 Suppl 1, 4523-30	11.5	495
110	Hippurate: the natural history of a mammalian-microbial cometabolite. *Journal of Proteome Research*, **2013**, 12, 1527-46	5.6	196
109	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	24.2	165
108	Probiotic administration attenuates myocardial hypertrophy and heart failure after myocardial infarction in the rat. *Circulation: Heart Failure*, **2014**, 7, 491-9	7.6	158
107	Biomarkers of Environmental Enteropathy, Inflammation, Stunting, and Impaired Growth in Children in Northeast Brazil. *PLoS ONE*, **2016**, 11, e0158772	3.7	115
106	Variation in antibiotic-induced microbial recolonization impacts on the host metabolic phenotypes of rats. *Journal of Proteome Research*, **2011**, 10, 3590-603	5.6	101
105	Small intestinal microbial dysbiosis underlies symptoms associated with functional gastrointestinal disorders. *Nature Communications*, **2019**, 10, 2012	17.4	88
104	Systematic review of the effects of the intestinal microbiota on selected nutrients and non-nutrients. *European Journal of Nutrition*, **2018**, 57, 25-49	5.2	85
103	Efficacy of increased resistant starch consumption in human type 2 diabetes. *Endocrine Connections* , **2014**, 3, 75-84	3.5	76
102	Gut microbial metabolites in depression: understanding the biochemical mechanisms. *Microbial Cell* , **2019**, 6, 454-481	3.9	75
101	Antigen-presenting ILC3 regulate T cell-dependent IgA responses to colonic mucosal bacteria. *Journal of Experimental Medicine*, **2019**, 216, 728-742	16.6	68
100	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	3.7	65
99	Para-cresol production by Clostridium difficile affects microbial diversity and membrane integrity of Gram-negative bacteria. *PLoS Pathogens*, **2018**, 14, e1007191	7.6	64
98	Longitudinal Multi-omics Reveals Subset-Specific Mechanisms Underlying Irritable Bowel Syndrome. *Cell*, **2020**, 182, 1460-1473.e17	56.2	63
97	The impact of oligofructose on stimulation of gut hormones, appetite regulation and adiposity. *Obesity*, **2014**, 22, 1430-8	8	60

96	In vitro fermentation of B-GOS: impact on faecal bacterial populations and metabolic activity in autistic and non-autistic children. *FEMS Microbiology Ecology*, **2017**, 93,	4.3	59
95	Protein- and zinc-deficient diets modulate the murine microbiome and metabolic phenotype. *American Journal of Clinical Nutrition*, **2016**, 104, 1253-1262	7	59
94	Gut microbiome modulates the toxicity of hydrazine: a metabonomic study. *Molecular BioSystems*, **2009**, 5, 351-5		57
93	Faecal virome transplantation decreases symptoms of type 2 diabetes and obesity in a murine model. *Gut*, **2020**, 69, 2122-2130	19.2	56
92	Differential effects of two fermentable carbohydrates on central appetite regulation and body composition. *PLoS ONE*, **2012**, 7, e43263	3.7	56
91	Targeted inhibition of gut bacterial β-glucuronidase activity enhances anticancer drug efficacy. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 7374-7381	11.5	54
90	Identification of metabolites in human hepatic bile using 800 MHz 1H NMR spectroscopy, HPLC-NMR/MS and UPLC-MS. *Molecular BioSystems*, **2009**, 5, 180-90		52
89	Cross-modulation of pathogen-specific pathways enhances malnutrition during enteric co-infection with Giardia lamblia and enteroaggregative Escherichia coli. *PLoS Pathogens*, **2017**, 13, e1006471	7.6	49
88	Microbiota Supplementation with and Modifies the Preterm Infant Gut Microbiota and Metabolome: An Observational Study. *Cell Reports Medicine*, **2020**, 1, 100077	18	49
87	Inferring Metabolic Mechanisms of Interaction within a Defined Gut Microbiota. *Cell Systems*, **2018**, 7, 245-257.e7	10.6	49
86	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	8.5	44
85	Urinary N-methylnicotinamide and β-aminoisobutyric acid predict catch-up growth in undernourished Brazilian children. *Scientific Reports*, **2016**, 6, 19780	4.9	41
84	Enhanced exercise and regenerative capacity in a mouse model that violates size constraints of oxidative muscle fibres. *ELife*, **2016**, 5,	8.9	39
83	Nutrimetabonomics:applications for nutritional sciences, with specific reference to gut microbial interactions. *Annual Review of Food Science and Technology*, **2013**, 4, 381-99	14.7	38
82	Systems-level metabolism of the altered Schaedler flora, a complete gut microbiota. *ISME Journal*, **2017**, 11, 426-438	11.9	37
81	A novel mouse model of Campylobacter jejuni enteropathy and diarrhea. *PLoS Pathogens*, **2018**, 14, e1007083	7.6	37
80	Microbial-mammalian cometabolites dominate the age-associated urinary metabolic phenotype in Taiwanese and American populations. *Journal of Proteome Research*, **2013**, 12, 3166-80	5.6	37
79	Ultrahigh-Performance Liquid Chromatography Tandem Mass Spectrometry with Electrospray Ionization Quantification of Tryptophan Metabolites and Markers of Gut Health in Serum and Plasma-Application to Clinical and Epidemiology Cohorts. *Analytical Chemistry*, **2019**, 91, 5207-5216	7.8	36

78	Integrated cytokine and metabolic analysis of pathological responses to parasite exposure in rodents. *Journal of Proteome Research*, **2010**, 9, 2255-64	5.6	36
77	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, 360-74	3.6	35
76	Anionic metabolic profiling of urine from antibiotic-treated rats by capillary electrophoresis-mass spectrometry. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 2585-94	4.4	34
75	Small talk: microbial metabolites involved in the signaling from microbiota to brain. *Current Opinion in Pharmacology*, **2019**, 48, 99-106	5.1	33
74	Age and microenvironment outweigh genetic influence on the Zucker rat microbiome. *PLoS ONE*, **2014**, 9, e100916	3.7	32
73	Modeling of Bile Acid Processing by the Human Fecal Microbiota. *Frontiers in Microbiology*, **2018**, 9, 1153	5.7	29
72	Modelling the role of microbial p-cresol in colorectal genotoxicity. *Gut Microbes*, **2019**, 10, 398-411	8.8	26
71	A murine model of diarrhea, growth impairment and metabolic disturbances with infection and the role of zinc deficiency. *Gut Microbes*, **2019**, 10, 615-630	8.8	24
70	Dominant components of the Thoroughbred metabolome characterised by (1) H-nuclear magnetic resonance spectroscopy: A metabolite atlas of common biofluids. *Equine Veterinary Journal*, **2015**, 47, 721-30	2.4	24
69	Gut microbiota steroid sexual dimorphism and its impact on gonadal steroids: influences of obesity and menopausal status. *Microbiome*, **2020**, 8, 136	16.6	24
68	Fermentation properties and potential prebiotic activity of Bimuno galacto-oligosaccharide (65 % galacto-oligosaccharide content) on in vitro gut microbiota parameters. *British Journal of Nutrition*, **2016**, 116, 480-6	3.6	24
67	Immunomodulatory and Prebiotic Effects of 2'-Fucosyllactose in Suckling Rats. *Frontiers in Immunology*, **2019**, 10, 1773	8.4	23
66	Chemotherapy-induced cachexia dysregulates hypothalamic and systemic lipoamines and is attenuated by cannabigerol. *Journal of Cachexia, Sarcopenia and Muscle*, **2019**, 10, 844-859	10.3	22
65	Metabolic phenotyping of malnutrition during the first 1000 days of life. *European Journal of Nutrition*, **2019**, 58, 909-930	5.2	22
64	Metabolic phenotyping reveals a reduction in the bioavailability of serotonin and kynurenine pathway metabolites in both the urine and serum of individuals living with Alzheimer's disease. *Alzheimer's Research and Therapy*, **2021**, 13, 20	9	22
63	Impacts of plant-based foods in ancestral hominin diets on the metabolism and function of gut microbiota in vitro. *MBio*, **2014**, 5, e00853-14	7.8	21
62	Characterizing the metabolic phenotype of intestinal villus blunting in Zambian children with severe acute malnutrition and persistent diarrhea. *PLoS ONE*, **2018**, 13, e0192092	3.7	20
61	Maternal Weaning Modulates Emotional Behavior and Regulates the Gut-Brain Axis. *Scientific Reports*, **2016**, 6, 21958	4.9	20

60	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	4.5	18
59	A Two-Way Interaction between Methotrexate and the Gut Microbiota of Male Sprague-Dawley Rats. *Journal of Proteome Research*, **2020**, 19, 3326-3339	5.6	18
58	Application of 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	3.5	17
57	Developmental Signatures of Microbiota-Derived Metabolites in the Mouse Brain. *Metabolites*, **2020**, 10,	5.6	16
56	Harnessing microbiome and probiotic research in sub-Saharan Africa: recommendations from an African workshop. *Microbiome*, **2014**, 2, 12	16.6	15
55	Association between urinary metabolic profile and the intestinal effects of cocoa in rats. *British Journal of Nutrition*, **2017**, 117, 623-634	3.6	14
54	Health Outcomes, Pathogenesis and Epidemiology of Severe Acute Malnutrition (HOPE-SAM): rationale and methods of a longitudinal observational study. *BMJ Open*, **2019**, 9, e023077	3	14
53	Kiwifruit fermentation drives positive gut microbial and metabolic changes irrespective of initial microbiota composition. *Bioactive Carbohydrates and Dietary Fibre*, **2015**, 6, 37-45	3.4	14
52	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	5.1	14
51	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	7	13
50	Chronic sleep restriction in the rotenone Parkinson's disease model in rats reveals peripheral early-phase biomarkers. *Scientific Reports*, **2019**, 9, 1898	4.9	13
49	Exploration of the Fecal Microbiota and Biomarker Discovery in Equine Grass Sickness. *Journal of Proteome Research*, **2018**, 17, 1120-1128	5.6	13
48	Nutrimetabonomics: nutritional applications of metabolic profiling. *Science Progress*, **2014**, 97, 41-7	1.1	13
47	Gut microbiome communication with bone marrow regulates susceptibility to amebiasis. *Journal of Clinical Investigation*, **2020**, 130, 4019-4024	15.9	13
46	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	5.2	11
45	Increased Urinary Trimethylamine N-Oxide Following Cryptosporidium Infection and Protein Malnutrition Independent of Microbiome Effects. *Journal of Infectious Diseases*, **2017**, 216, 64-71	7	10
44	Enteropathogenic Infection Induces Diarrhea, Intestinal Damage, Metabolic Alterations, and Increased Intestinal Permeability in a Murine Model. *Frontiers in Cellular and Infection Microbiology*, **2020**, 10, 595266	5.9	10
43	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	7.8	10

42	Impact of different hypercaloric diets on obesity features in rats: a metagenomics and metabolomics integrative approach. *Journal of Nutritional Biochemistry*, **2019**, 71, 122-131	6.3	9
41	Hydrophilic interaction chromatography-mass spectrometry for anionic metabolic profiling of urine from antibiotic-treated rats. *Journal of Pharmaceutical and Biomedical Analysis*, **2014**, 92, 98-104	3.5	9
40	Effects of improved water, sanitation, and hygiene and improved complementary feeding on environmental enteric dysfunction in children in rural Zimbabwe: A cluster-randomized controlled trial. *PLoS Neglected Tropical Diseases*, **2020**, 14, e0007963	4.8	8
39	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	3	8
38	Consumer Safety Considerations of Skin and Oral Microbiome Perturbation. *Clinical Microbiology Reviews*, **2019**, 32,	34	8
37	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	3.7	8
36	Batch effect exerts a bigger influence on the rat urinary metabolome and gut microbiota than uraemia: a cautionary tale. *Microbiome*, **2019**, 7, 127	16.6	7
35	Influence of the Human Gut Microbiome on the Metabolic Phenotype **2019**, 535-560		7
34	Reply to: Postbiotics - when simplification fails to clarify. *Nature Reviews Gastroenterology and Hepatology*, **2021**, 18, 827-828	24.2	7
33	The Aging Imageomics Study: rationale, design and baseline characteristics of the study population. *Mechanisms of Ageing and Development*, **2020**, 189, 111257	5.6	6
32	The Mycotoxin Deoxynivalenol Significantly Alters the Function and Metabolism of Bovine Kidney Epithelial Cells In Vitro. *Toxins*, **2019**, 11,	4.9	6
31	Exploration of the microbiota and metabolites within body fluids could pinpoint novel disease mechanisms. *FEBS Journal*, **2020**, 287, 856-865	5.7	6
30	The APOA1bp-SREBF-NOTCH axis is associated with reduced atherosclerosis risk in morbidly obese patients. *Clinical Nutrition*, **2020**, 39, 3408-3418	5.9	5
29	L-rhamnose as a source of colonic propionate inhibits insulin secretion but does not influence measures of appetite or food intake. *Appetite*, **2016**, 98, 142-9	4.5	5
28	Microbiota supplementation with Bifidobacterium and Lactobacillus modifies the preterm infant gut microbiota and metabolome		5
27	Modeling Enteropathy or Diarrhea with the Top Bacterial and Protozoal Pathogens: Differential Determinants of Outcomes. *ACS Infectious Diseases*, **2021**, 7, 1020-1031	5.5	5
26	Metabolic phenotyping of opioid and psychostimulant addiction: A novel approach for biomarker discovery and biochemical understanding of the disorder. *British Journal of Pharmacology*, **2021**,	8.6	5
25	Biology of the Microbiome 2: Metabolic Role. *Gastroenterology Clinics of North America*, **2017**, 46, 37-47	4.4	4

24	Maternal exposure to a human relevant mixture of persistent organic pollutants reduces colorectal carcinogenesis in A/J Min/+ mice. *Chemosphere*, **2020**, 252, 126484	8.4	4
23	Characterizing the metabolic perturbations induced by activity-based anorexia in the C57Bl/6 mouse using H NMR spectroscopy. *Clinical Nutrition*, **2020**, 39, 2428-2434	5.9	4
22	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	7	4
21	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	5.6	3
20	Low AMY1 Copy Number Is Cross-Sectionally Associated to an Inflammation-Related Lipidomics Signature in Overweight and Obese Individuals. *Molecular Nutrition and Food Research*, **2020**, 64, e1901151	5.9	3
19	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	5.6	3
18	"Bowel on the Bench": Proof of Concept of a Three-Stage, Fermentation Model of the Equine Large Intestine. *Applied and Environmental Microbiology*, **2019**, 86,	4.8	3
17	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	3.2	3
16	Metabolic mechanisms of interaction within a defined gut microbiota		3
15	Faecal virome transplantation decrease symptoms of type-2-diabetes and obesity in a murine model		3
14	Characterizing the breast cancer lipidome and its interaction with the tissue microbiota. *Communications Biology*, **2021**, 4, 1229	6.7	2
13	Intervention and Mechanisms of Alanyl-glutamine for Inflammation, Nutrition, and Enteropathy: A Randomized Controlled Trial. *Journal of Pediatric Gastroenterology and Nutrition*, **2020**, 71, 393-400	2.8	2
12	Metabolomic signatures associated with depression and predictors of antidepressant response in humans: A CAN-BIND-1 report. *Communications Biology*, **2021**, 4, 903	6.7	2
11	Postnatal prebiotic supplementation in rats affects adult anxious behaviour, hippocampus, electrophysiology, metabolomics, and gut microbiota. *IScience*, **2021**, 24, 103113	6.1	2
10	Culture-Independent Analysis of the Human Gut Microbiota and their Activities **2011**, 207-219		1
9	EnteropathogenicEscherichia coli(EPEC) Infection Induces Diarrhea, Intestinal Damage, Metabolic Alterations and Increased Intestinal Permeability in a Murine Model		1
8	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	5.9	1
7	A targeted ultra performance liquid chromatography - 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	3.2	1

6	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	4.8	0
5	Associations between biomarkers of environmental enteric dysfunction and oral rotavirus vaccine immunogenicity in rural Zimbabwean infants. *EClinicalMedicine*, **2021**, 41, 101173	11.3	0
4	Novel Relationship Between Plasmalogen Lipid Signatures and Carnosine in Humans. *Molecular Nutrition and Food Research*, **2021**, 65, e2100164	5.9	0
3	Post-weaning A1/A2 β-casein milk intake modulates depressive-like behavior, brain μ-opioid receptors, and the metabolome of rats. *IScience*, **2021**, 24, 103048	6.1	0
2	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	11.6	0
1	The effect of a hydrolyzed protein diet on the fecal microbiota in cats with chronic enteropathy.. *Scientific Reports*, **2022**, 12, 2746	4.9	