

Jonathan Swann

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	The effect of a hydrolyzed protein diet on the fecal microbiota in cats with chronic enteropathy.. <i>Scientific Reports</i> , 2022 , 12, 2746	4.9	
112	Associations between biomarkers of environmental enteric dysfunction and oral rotavirus vaccine immunogenicity in rural Zimbabwean infants. <i>EClinicalMedicine</i> , 2021 , 41, 101173	11.3	0
111	Characterizing the breast cancer lipidome and its interaction with the tissue microbiota. <i>Communications Biology</i> , 2021 , 4, 1229	6.7	2
110	Biomarkers of environmental enteric dysfunction are not consistently associated with linear growth velocity in rural Zimbabwean infants. <i>American Journal of Clinical Nutrition</i> , 2021 , 113, 1185-1198	7	4
109	Gut Microbial and Metabolic Profiling Reveal the Lingering Effects of Infantile Iron Deficiency Unless Treated with Iron. <i>Molecular Nutrition and Food Research</i> , 2021 , 65, e2001018	5.9	1
108	Modeling Enteropathy or Diarrhea with the Top Bacterial and Protozoal Pathogens: Differential Determinants of Outcomes. <i>ACS Infectious Diseases</i> , 2021 , 7, 1020-1031	5.5	5
107	The International Scientific Association of Probiotics and Prebiotics (ISAPP) consensus statement on the definition and scope of postbiotics. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2021 , 18, 649-667	24.2	165
106	Metabolic phenotyping of opioid and psychostimulant addiction: A novel approach for biomarker discovery and biochemical understanding of the disorder. <i>British Journal of Pharmacology</i> , 2021 ,	8.6	5
105	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. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021 , 1161, 122511	3.2	1
104	Metabolomic signatures associated with depression and predictors of antidepressant response in humans: A CAN-BIND-1 report. <i>Communications Biology</i> , 2021 , 4, 903	6.7	2
103	Novel Relationship Between Plasmalogen Lipid Signatures and Carnosine in Humans. <i>Molecular Nutrition and Food Research</i> , 2021 , 65, e2100164	5.9	0
102	Post-weaning A1/A2 β -casein milk intake modulates depressive-like behavior, brain β -opioid receptors, and the metabolome of rats. <i>iScience</i> , 2021 , 24, 103048	6.1	0
101	Effect of scheduled antimicrobial and nicotinamide treatment on linear growth in children in rural Tanzania: A factorial randomized, double-blind, placebo-controlled trial. <i>PLoS Medicine</i> , 2021 , 18, e1003617	11.6	0
100	Reply to: Postbiotics - when simplification fails to clarify. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2021 , 18, 827-828	24.2	7
99	Postnatal prebiotic supplementation in rats affects adult anxious behaviour, hippocampus, electrophysiology, metabolomics, and gut microbiota. <i>iScience</i> , 2021 , 24, 103113	6.1	2
98	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. <i>Alzheimer's Research and Therapy</i> , 2021 , 13, 20	9	22
97	Developmental Signatures of Microbiota-Derived Metabolites in the Mouse Brain. <i>Metabolites</i> , 2020 , 10,	5.6	16

96	Low AMY1 Copy Number Is Cross-Sectionally Associated to an Inflammation-Related Lipidomics Signature in Overweight and Obese Individuals. <i>Molecular Nutrition and Food Research</i> , 2020 , 64, e1901151	5.9	3
95	The Aging Imageomics Study: rationale, design and baseline characteristics of the study population. <i>Mechanisms of Ageing and Development</i> , 2020 , 189, 111257	5.6	6
94	A Two-Way Interaction between Methotrexate and the Gut Microbiota of Male Sprague-Dawley Rats. <i>Journal of Proteome Research</i> , 2020 , 19, 3326-3339	5.6	18
93	Faecal virome transplantation decreases symptoms of type 2 diabetes and obesity in a murine model. <i>Gut</i> , 2020 , 69, 2122-2130	19.2	56
92	Maternal exposure to a human relevant mixture of persistent organic pollutants reduces colorectal carcinogenesis in A/J Min/+ mice. <i>Chemosphere</i> , 2020 , 252, 126484	8.4	4
91	The APOA1bp-SREBF-NOTCH axis is associated with reduced atherosclerosis risk in morbidly obese patients. <i>Clinical Nutrition</i> , 2020 , 39, 3408-3418	5.9	5
90	Targeted inhibition of gut bacterial β -glucuronidase activity enhances anticancer drug efficacy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 7374-7381	11.5	54
89	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. <i>PLoS Neglected Tropical Diseases</i> , 2020 , 14, e0007963	4.8	8
88	Gut microbiome communication with bone marrow regulates susceptibility to amebiasis. <i>Journal of Clinical Investigation</i> , 2020 , 130, 4019-4024	15.9	13
87	Enteropathogenic Infection Induces Diarrhea, Intestinal Damage, Metabolic Alterations, and Increased Intestinal Permeability in a Murine Model. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020 , 10, 595266	5.9	10
86	Baseline Characteristics of Study Participants in the Early Life Interventions for Childhood Growth and Development in Tanzania (ELICIT) Trial. <i>American Journal of Tropical Medicine and Hygiene</i> , 2020 , 103, 1397-1404	3.2	3
85	Exploration of the microbiota and metabolites within body fluids could pinpoint novel disease mechanisms. <i>FEBS Journal</i> , 2020 , 287, 856-865	5.7	6
84	Characterizing the metabolic perturbations induced by activity-based anorexia in the C57Bl/6 mouse using ^1H NMR spectroscopy. <i>Clinical Nutrition</i> , 2020 , 39, 2428-2434	5.9	4
83	Longitudinal Multi-omics Reveals Subset-Specific Mechanisms Underlying Irritable Bowel Syndrome. <i>Cell</i> , 2020 , 182, 1460-1473.e17	56.2	63
82	Microbiota Supplementation with and Modifies the Preterm Infant Gut Microbiota and Metabolome: An Observational Study. <i>Cell Reports Medicine</i> , 2020 , 1, 100077	18	49
81	Gut microbiota steroid sexual dimorphism and its impact on gonadal steroids: influences of obesity and menopausal status. <i>Microbiome</i> , 2020 , 8, 136	16.6	24
80	Intervention and Mechanisms of Alanyl-glutamine for Inflammation, Nutrition, and Enteropathy: A Randomized Controlled Trial. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2020 , 71, 393-400	2.8	2
79	Batch effect exerts a bigger influence on the rat urinary metabolome and gut microbiota than uraemia: a cautionary tale. <i>Microbiome</i> , 2019 , 7, 127	16.6	7

78	Tryptophan, glutamine, leucine, and micronutrient supplementation improves environmental enteropathy in Zambian adults: a randomized controlled trial. <i>American Journal of Clinical Nutrition</i> , 2019 , 110, 1240-1252	7	13
77	Small talk: microbial metabolites involved in the signaling from microbiota to brain. <i>Current Opinion in Pharmacology</i> , 2019 , 48, 99-106	5.1	33
76	A murine model of diarrhea, growth impairment and metabolic disturbances with infection and the role of zinc deficiency. <i>Gut Microbes</i> , 2019 , 10, 615-630	8.8	24
75	Impact of different hypercaloric diets on obesity features in rats: a metagenomics and metabolomics integrative approach. <i>Journal of Nutritional Biochemistry</i> , 2019 , 71, 122-131	6.3	9
74	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. <i>Journal of Chromatography A</i> , 2019 , 1602, 386-396	4.5	18
73	Small intestinal microbial dysbiosis underlies symptoms associated with functional gastrointestinal disorders. <i>Nature Communications</i> , 2019 , 10, 2012	17.4	88
72	Chemotherapy-induced cachexia dysregulates hypothalamic and systemic lipoamines and is attenuated by cannabigerol. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2019 , 10, 844-859	10.3	22
71	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. <i>Analytical Chemistry</i> , 2019 , 91, 5207-5216	7.8	36
70	Obesity and Cage Environment Modulate Metabolism in the Zucker Rat: A Multiple Biological Matrix Approach to Characterizing Metabolic Phenomena. <i>Journal of Proteome Research</i> , 2019 , 18, 2160-2174	5.6	3
69	Chronic sleep restriction in the rotenone Parkinson's disease model in rats reveals peripheral early-phase biomarkers. <i>Scientific Reports</i> , 2019 , 9, 1898	4.9	13
68	Health Outcomes, Pathogenesis and Epidemiology of Severe Acute Malnutrition (HOPE-SAM): rationale and methods of a longitudinal observational study. <i>BMJ Open</i> , 2019 , 9, e023077	3	14
67	Metabolic targets of watercress and PEITC in MCF-7 and MCF-10A cells explain differential sensitisation responses to ionising radiation. <i>European Journal of Nutrition</i> , 2019 , 58, 2377-2391	5.2	11
66	Immunomodulatory and Prebiotic Effects of 2'-Fucosyllactose in Suckling Rats. <i>Frontiers in Immunology</i> , 2019 , 10, 1773	8.4	23
65	Consumer Safety Considerations of Skin and Oral Microbiome Perturbation. <i>Clinical Microbiology Reviews</i> , 2019 , 32,	34	8
64	The Mycotoxin Deoxynivalenol Significantly Alters the Function and Metabolism of Bovine Kidney Epithelial Cells In Vitro. <i>Toxins</i> , 2019 , 11,	4.9	6
63	"Bowel on the Bench": Proof of Concept of a Three-Stage, Fermentation Model of the Equine Large Intestine. <i>Applied and Environmental Microbiology</i> , 2019 , 86,	4.8	3
62	Penalized regression models to select biomarkers of environmental enteric dysfunction associated with linear growth acquisition in a Peruvian birth cohort. <i>PLoS Neglected Tropical Diseases</i> , 2019 , 13, e0007851	4.8	0
61	Antigen-presenting ILC3 regulate T cell-dependent IgA responses to colonic mucosal bacteria. <i>Journal of Experimental Medicine</i> , 2019 , 216, 728-742	16.6	68

60	Gut microbial metabolites in depression: understanding the biochemical mechanisms. <i>Microbial Cell</i> , 2019 , 6, 454-481	3.9	75
59	Modelling the role of microbial p-cresol in colorectal genotoxicity. <i>Gut Microbes</i> , 2019 , 10, 398-411	8.8	26
58	Influence of the Human Gut Microbiome on the Metabolic Phenotype 2019 , 535-560		7
57	Metabolic phenotyping of malnutrition during the first 1000 days of life. <i>European Journal of Nutrition</i> , 2019 , 58, 909-930	5.2	22
56	Exploration of the Fecal Microbiota and Biomarker Discovery in Equine Grass Sickness. <i>Journal of Proteome Research</i> , 2018 , 17, 1120-1128	5.6	13
55	Characterizing the Biochemical Response to <i>Schistosoma mansoni</i> Infection and Treatment with Praziquantel in Preschool and School Aged Children. <i>Journal of Proteome Research</i> , 2018 , 17, 2028-2033	5.6	3
54	Gut microbiota functions: metabolism of nutrients and other food components. <i>European Journal of Nutrition</i> , 2018 , 57, 1-24	5.2	857
53	Systematic review of the effects of the intestinal microbiota on selected nutrients and non-nutrients. <i>European Journal of Nutrition</i> , 2018 , 57, 25-49	5.2	85
52	Modeling of Bile Acid Processing by the Human Fecal Microbiota. <i>Frontiers in Microbiology</i> , 2018 , 9, 11535	7	29
51	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. <i>BMJ Open</i> , 2018 , 8, e021817	3	8
50	Characterizing the metabolic phenotype of intestinal villus blunting in Zambian children with severe acute malnutrition and persistent diarrhea. <i>PLoS ONE</i> , 2018 , 13, e0192092	3.7	20
49	A novel mouse model of <i>Campylobacter jejuni</i> enteropathy and diarrhea. <i>PLoS Pathogens</i> , 2018 , 14, e1007083	7.0	37
48	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. <i>Free Radical Biology and Medicine</i> , 2018 , 129, 504-519	7.8	10
47	Inferring Metabolic Mechanisms of Interaction within a Defined Gut Microbiota. <i>Cell Systems</i> , 2018 , 7, 245-257.e7	10.6	49
46	Fecal microbiota and bile acid interactions with systemic and adipose tissue metabolism in diet-induced weight loss of obese postmenopausal women. <i>Journal of Translational Medicine</i> , 2018 , 16, 244	8.5	44
45	Para-cresol production by <i>Clostridium difficile</i> affects microbial diversity and membrane integrity of Gram-negative bacteria. <i>PLoS Pathogens</i> , 2018 , 14, e1007191	7.6	64
44	Systems-level metabolism of the altered Schaedler flora, a complete gut microbiota. <i>ISME Journal</i> , 2017 , 11, 426-438	11.9	37
43	Increased Urinary Trimethylamine N-Oxide Following <i>Cryptosporidium</i> Infection and Protein Malnutrition Independent of Microbiome Effects. <i>Journal of Infectious Diseases</i> , 2017 , 216, 64-71	7	10

42	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. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017 , 143, 141-146	3.5	17
41	Association between urinary metabolic profile and the intestinal effects of cocoa in rats. <i>British Journal of Nutrition</i> , 2017 , 117, 623-634	3.6	14
40	Biology of the Microbiome 2: Metabolic Role. <i>Gastroenterology Clinics of North America</i> , 2017 , 46, 37-47	4.4	4
39	Cross-modulation of pathogen-specific pathways enhances malnutrition during enteric co-infection with <i>Giardia lamblia</i> and enteroaggregative <i>Escherichia coli</i> . <i>PLoS Pathogens</i> , 2017 , 13, e1006471	7.6	49
38	In vitro fermentation of B-GOS: impact on faecal bacterial populations and metabolic activity in autistic and non-autistic children. <i>FEMS Microbiology Ecology</i> , 2017 , 93,	4.3	59
37	An in vivo assessment of the cholesterol-lowering efficacy of <i>Lactobacillus plantarum</i> ECGC 13110402 in normal to mildly hypercholesterolaemic adults. <i>PLoS ONE</i> , 2017 , 12, e0187964	3.7	65
36	L-rhamnose as a source of colonic propionate inhibits insulin secretion but does not influence measures of appetite or food intake. <i>Appetite</i> , 2016 , 98, 142-9	4.5	5
35	Biomarkers of Environmental Enteropathy, Inflammation, Stunting, and Impaired Growth in Children in Northeast Brazil. <i>PLoS ONE</i> , 2016 , 11, e0158772	3.7	115
34	Enhanced exercise and regenerative capacity in a mouse model that violates size constraints of oxidative muscle fibres. <i>ELife</i> , 2016 , 5,	8.9	39
33	Fermentation properties and potential prebiotic activity of Bimuno [®] galacto-oligosaccharide (65 % galacto-oligosaccharide content) on in vitro gut microbiota parameters. <i>British Journal of Nutrition</i> , 2016 , 116, 480-6	3.6	24
32	Urinary N-methylnicotinamide and β-aminoisobutyric acid predict catch-up growth in undernourished Brazilian children. <i>Scientific Reports</i> , 2016 , 6, 19780	4.9	41
31	Maternal Weaning Modulates Emotional Behavior and Regulates the Gut-Brain Axis. <i>Scientific Reports</i> , 2016 , 6, 21958	4.9	20
30	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. <i>British Journal of Nutrition</i> , 2016 , 116, 360-74	3.6	35
29	Protein- and zinc-deficient diets modulate the murine microbiome and metabolic phenotype. <i>American Journal of Clinical Nutrition</i> , 2016 , 104, 1253-1262	7	59
28	Dominant components of the Thoroughbred metabolome characterised by (1) H-nuclear magnetic resonance spectroscopy: A metabolite atlas of common biofluids. <i>Equine Veterinary Journal</i> , 2015 , 47, 721-30	2.4	24
27	Kiwifruit fermentation drives positive gut microbial and metabolic changes irrespective of initial microbiota composition. <i>Bioactive Carbohydrates and Dietary Fibre</i> , 2015 , 6, 37-45	3.4	14
26	Investigating mechanisms underpinning the detrimental impact of a high-fat diet in the developing and adult hypermuscular myostatin null mouse. <i>Skeletal Muscle</i> , 2015 , 5, 38	5.1	14
25	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. <i>PLoS ONE</i> , 2015 , 10, e0120524	3.7	8

24	The short-chain fatty acid acetate reduces appetite via a central homeostatic mechanism. <i>Nature Communications</i> , 2014 , 5, 3611	17.4	781
23	The impact of oligofructose on stimulation of gut hormones, appetite regulation and adiposity. <i>Obesity</i> , 2014 , 22, 1430-8	8	60
22	Harnessing microbiome and probiotic research in sub-Saharan Africa: recommendations from an African workshop. <i>Microbiome</i> , 2014 , 2, 12	16.6	15
21	Probiotic administration attenuates myocardial hypertrophy and heart failure after myocardial infarction in the rat. <i>Circulation: Heart Failure</i> , 2014 , 7, 491-9	7.6	158
20	Hydrophilic interaction chromatography-mass spectrometry for anionic metabolic profiling of urine from antibiotic-treated rats. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 92, 98-104	3.5	9
19	Efficacy of increased resistant starch consumption in human type 2 diabetes. <i>Endocrine Connections</i> , 2014 , 3, 75-84	3.5	76
18	Nutrimetabonomics: nutritional applications of metabolic profiling. <i>Science Progress</i> , 2014 , 97, 41-7	1.1	13
17	Impacts of plant-based foods in ancestral hominin diets on the metabolism and function of gut microbiota in vitro. <i>MBio</i> , 2014 , 5, e00853-14	7.8	21
16	Age and microenvironment outweigh genetic influence on the Zucker rat microbiome. <i>PLoS ONE</i> , 2014 , 9, e100916	3.7	32
15	Anionic metabolic profiling of urine from antibiotic-treated rats by capillary electrophoresis-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 2585-94	4.4	34
14	Microbial-mammalian cometabolites dominate the age-associated urinary metabolic phenotype in Taiwanese and American populations. <i>Journal of Proteome Research</i> , 2013 , 12, 3166-80	5.6	37
13	Nutrimetabonomics: applications for nutritional sciences, with specific reference to gut microbial interactions. <i>Annual Review of Food Science and Technology</i> , 2013 , 4, 381-99	14.7	38
12	Hippurate: the natural history of a mammalian-microbial cometabolite. <i>Journal of Proteome Research</i> , 2013 , 12, 1527-46	5.6	196
11	Differential effects of two fermentable carbohydrates on central appetite regulation and body composition. <i>PLoS ONE</i> , 2012 , 7, e43263	3.7	56
10	Culture-Independent Analysis of the Human Gut Microbiota and their Activities 2011 , 207-219		1
9	Variation in antibiotic-induced microbial recolonization impacts on the host metabolic phenotypes of rats. <i>Journal of Proteome Research</i> , 2011 , 10, 3590-603	5.6	101
8	Systemic gut microbial modulation of bile acid metabolism in host tissue compartments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108 Suppl 1, 4523-30	11.5	495
7	Integrated cytokine and metabolic analysis of pathological responses to parasite exposure in rodents. <i>Journal of Proteome Research</i> , 2010 , 9, 2255-64	5.6	36

6	Identification of metabolites in human hepatic bile using 800 MHz ¹ H NMR spectroscopy, HPLC-NMR/MS and UPLC-MS. <i>Molecular BioSystems</i> , 2009 , 5, 180-90	52
5	Gut microbiome modulates the toxicity of hydrazine: a metabonomic study. <i>Molecular BioSystems</i> , 2009 , 5, 351-5	57
4	Enteropathogenic <i>Escherichia coli</i> (EPEC) Infection Induces Diarrhea, Intestinal Damage, Metabolic Alterations and Increased Intestinal Permeability in a Murine Model	1
3	Metabolic mechanisms of interaction within a defined gut microbiota	3
2	Microbiota supplementation with <i>Bifidobacterium</i> and <i>Lactobacillus</i> modifies the preterm infant gut microbiota and metabolome	5
1	Faecal virome transplantation decrease symptoms of type-2-diabetes and obesity in a murine model	3