

Jonathan Swann

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5499416/publications.pdf>

Version: 2024-02-01

115
papers

9,060
citations

71102

41
h-index

46799

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. <i>European Journal of Nutrition</i> , 2018, 57, 1-24.	3.9	1,608
2	The short-chain fatty acid acetate reduces appetite via a central homeostatic mechanism. <i>Nature Communications</i> , 2014, 5, 3611.	12.8	1,129
3	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.	17.8	701
4	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, 4523-4530.	7.1	625
5	Hippurate: The Natural History of a Mammalian "Microbial Cometabolite. <i>Journal of Proteome Research</i> , 2013, 12, 1527-1546.	3.7	263
6	Probiotic Administration Attenuates Myocardial Hypertrophy and Heart Failure After Myocardial Infarction in the Rat. <i>Circulation: Heart Failure</i> , 2014, 7, 491-499.	3.9	231
7	Longitudinal Multi-omics Reveals Subset-Specific Mechanisms Underlying Irritable Bowel Syndrome. <i>Cell</i> , 2020, 182, 1460-1473.e17.	28.9	217
8	Small intestinal microbial dysbiosis underlies symptoms associated with functional gastrointestinal disorders. <i>Nature Communications</i> , 2019, 10, 2012.	12.8	168
9	Biomarkers of Environmental Enteropathy, Inflammation, Stunting, and Impaired Growth in Children in Northeast Brazil. <i>PLoS ONE</i> , 2016, 11, e0158772.	2.5	164
10	Gut microbial metabolites in depression: understanding the biochemical mechanisms. <i>Microbial Cell</i> , 2019, 6, 454-481.	3.2	161
11	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.	3.9	143
12	Faecal virome transplantation decreases symptoms of type 2 diabetes and obesity in a murine model. <i>Gut</i> , 2020, 69, 2122-2130.	12.1	142
13	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.	7.1	121
14	Microbiota Supplementation with <i>Bifidobacterium</i> and <i>Lactobacillus</i> Modifies the Preterm Infant Gut Microbiota and Metabolome: An Observational Study. <i>Cell Reports Medicine</i> , 2020, 1, 100077.	6.5	119
15	Variation in Antibiotic-Induced Microbial Recolonization Impacts on the Host Metabolic Phenotypes of Rats. <i>Journal of Proteome Research</i> , 2011, 10, 3590-3603.	3.7	114
16	Antigen-presenting ILC3 regulate T cell-dependent IgA responses to colonic mucosal bacteria. <i>Journal of Experimental Medicine</i> , 2019, 216, 728-742.	8.5	113
17	Efficacy of increased resistant starch consumption in human type 2 diabetes. <i>Endocrine Connections</i> , 2014, 3, 75-84.	1.9	104
18	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.	2.5	99

#	ARTICLE	IF	CITATIONS
19	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.	4.7	98
20	<i>In vitro</i> 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, fiw233.	2.7	90
21	Inferring Metabolic Mechanisms of Interaction within a Defined Gut Microbiota. <i>Cell Systems</i> , 2018, 7, 245-257.e7.	6.2	89
22	Protein- and zinc-deficient diets modulate the murine microbiome and metabolic phenotype. <i>American Journal of Clinical Nutrition</i> , 2016, 104, 1253-1262.	4.7	83
23	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.	4.4	78
24	The impact of oligofructose on stimulation of gut hormones, appetite regulation and adiposity. <i>Obesity</i> , 2014, 22, 1430-1438.	3.0	73
25	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.	6.5	72
26	Gut microbiota steroid sexual dimorphism and its impact on gonadal steroids: influences of obesity and menopausal status. <i>Microbiome</i> , 2020, 8, 136.	11.1	72
27	Small talk: microbial metabolites involved in the signaling from microbiota to brain. <i>Current Opinion in Pharmacology</i> , 2019, 48, 99-106.	3.5	69
28	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.	4.7	68
29	Differential Effects of Two Fermentable Carbohydrates on Central Appetite Regulation and Body Composition. <i>PLoS ONE</i> , 2012, 7, e43263.	2.5	66
30	Systems-level metabolism of the altered Schaedler flora, a complete gut microbiota. <i>ISME Journal</i> , 2017, 11, 426-438.	9.8	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 Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2021, 13, 20.	6.2	60
32	Gut microbiome modulates the toxicity of hydrazine: a metabonomic study. <i>Molecular BioSystems</i> , 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. <i>British Journal of Nutrition</i> , 2016, 116, 360-374.	2.3	58
34	Urinary N-methylnicotinamide and β -aminoisobutyric acid predict catch-up growth in undernourished Brazilian children. <i>Scientific Reports</i> , 2016, 6, 19780.	3.3	56
35	A novel mouse model of <i>Campylobacter jejuni</i> enteropathy and diarrhea. <i>PLoS Pathogens</i> , 2018, 14, e1007083.	4.7	55
36	Identification of metabolites in human hepatic bile using 800 MHz ^1H NMR spectroscopy, HPLC-NMR/MS and UPLC-MS. <i>Molecular BioSystems</i> , 2009, 5, 180-190.	2.9	53

#	ARTICLE	IF	CITATIONS
37	Metabolic phenotyping of malnutrition during the first 1000 days of life. <i>European Journal of Nutrition</i> , 2019, 58, 909-930.	3.9	48
38	Enhanced exercise and regenerative capacity in a mouse model that violates size constraints of oxidative muscle fibres. <i>ELife</i> , 2016, 5, .	6.0	47
39	Microbial Mammalian Cometabolites Dominate the Age-associated Urinary Metabolic Phenotype in Taiwanese and American Populations. <i>Journal of Proteome Research</i> , 2013, 12, 3166-3180.	3.7	46
40	Modelling the role of microbial p-cresol in colorectal genotoxicity. <i>Gut Microbes</i> , 2019, 10, 398-411.	9.8	46
41	Nutrimetabonomics: Applications for Nutritional Sciences, with Specific Reference to Gut Microbial Interactions. <i>Annual Review of Food Science and Technology</i> , 2013, 4, 381-399.	9.9	45
42	Integrated Cytokine and Metabolic Analysis of Pathological Responses to Parasite Exposure in Rodents. <i>Journal of Proteome Research</i> , 2010, 9, 2255-2264.	3.7	42
43	Fermentation properties and potential prebiotic activity of Bimuno [®] galacto-oligosaccharide (65 % galacto-oligosaccharide content) on <i>in vitro</i> gut microbiota parameters. <i>British Journal of Nutrition</i> , 2016, 116, 480-486.	2.3	42
44	Immunomodulatory and Prebiotic Effects of α -Fucosyllactose in Suckling Rats. <i>Frontiers in Immunology</i> , 2019, 10, 1773.	4.8	40
45	Age and Microenvironment Outweigh Genetic Influence on the Zucker Rat Microbiome. <i>PLoS ONE</i> , 2014, 9, e100916.	2.5	40
46	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.	7.3	39
47	Anionic metabolic profiling of urine from antibiotic-treated rats by capillary electrophoresis-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 2585-2594.	3.7	38
48	In Vitro Modeling of Bile Acid Processing by the Human Fecal Microbiota. <i>Frontiers in Microbiology</i> , 2018, 9, 1153.	3.5	36
49	A murine model of diarrhea, growth impairment and metabolic disturbances with <i>Shigella flexneri</i> infection and the role of zinc deficiency. <i>Gut Microbes</i> , 2019, 10, 615-630.	9.8	36
50	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.	3.7	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. <i>Journal of Chromatography A</i> , 2019, 1602, 386-396.	3.7	34
52	Developmental Signatures of Microbiota-Derived Metabolites in the Mouse Brain. <i>Metabolites</i> , 2020, 10, 172.	2.9	34
53	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.	2.5	33
54	Dominant components of the ¹ H ¹³ C nuclear magnetic resonance spectroscopy: A metabolite atlas of common biofluids. <i>Equine Veterinary Journal</i> , 2015, 47, 721-730.	1.7	30

#	ARTICLE	IF	CITATIONS
55	Maternal Weaning Modulates Emotional Behavior and Regulates the Gut-Brain Axis. <i>Scientific Reports</i> , 2016, 6, 21958.	3.3	29
56	Impacts of Plant-Based Foods in Ancestral Hominin Diets on the Metabolism and Function of Gut Microbiota <i>In Vitro</i> . <i>MBio</i> , 2014, 5, e00853-14.	4.1	27
57	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.	4.2	26
58	Enteropathogenic <i>Escherichia coli</i> 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.	3.9	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. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 143, 141-146.	2.8	24
60	Reply to: Postbiotics “when simplification fails to clarify. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2021, 18, 827-828.	17.8	24
61	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.	1.9	22
62	Gut microbiome communication with bone marrow regulates susceptibility to amebiasis. <i>Journal of Clinical Investigation</i> , 2020, 130, 4019-4024.	8.2	22
63	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.	3.0	21
64	Harnessing microbiome and probiotic research in sub-Saharan Africa: recommendations from an African workshop. <i>Microbiome</i> , 2014, 2, 12.	11.1	20
65	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.	3.9	20
66	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.	4.7	20
67	Modeling Enteropathy or Diarrhea with the Top Bacterial and Protozoal Pathogens: Differential Determinants of Outcomes. <i>ACS Infectious Diseases</i> , 2021, 7, 1020-1031.	3.8	20
68	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> , 2022, 179, 1578-1606.	5.4	19
69	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.	4.2	18
70	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.	2.7	18
71	Exploration of the Fecal Microbiota and Biomarker Discovery in Equine Grass Sickness. <i>Journal of Proteome Research</i> , 2018, 17, 1120-1128.	3.7	18
72	The Aging Imageomics Study: rationale, design and baseline characteristics of the study population. <i>Mechanisms of Ageing and Development</i> , 2020, 189, 111257.	4.6	18

#	ARTICLE	IF	CITATIONS
73	Association between urinary metabolic profile and the intestinal effects of cocoa in rats. <i>British Journal of Nutrition</i> , 2017, 117, 623-634.	2.3	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. <i>BMJ Open</i> , 2018, 8, e021817.	1.9	17
75	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.	11.1	17
76	Chronic sleep restriction in the rotenone Parkinson's disease model in rats reveals peripheral early-phase biomarkers. <i>Scientific Reports</i> , 2019, 9, 1898.	3.3	17
77	Characterizing the breast cancer lipidome and its interaction with the tissue microbiota. <i>Communications Biology</i> , 2021, 4, 1229.	4.4	17
78	Increased Urinary Trimethylamine N-Oxide Following Cryptosporidium Infection and Protein Malnutrition Independent of Microbiome Effects. <i>Journal of Infectious Diseases</i> , 2017, 216, 64-71.	4.0	16
79	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.	4.7	16
80	Metabolomic signatures associated with depression and predictors of antidepressant response in humans: A CAN-BIND-1 report. <i>Communications Biology</i> , 2021, 4, 903.	4.4	16
81	Nutrimetabonomics: Nutritional Applications of Metabolic Profiling. <i>Science Progress</i> , 2014, 97, 41-47.	1.9	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. <i>Free Radical Biology and Medicine</i> , 2018, 129, 504-519.	2.9	15
83	Consumer Safety Considerations of Skin and Oral Microbiome Perturbation. <i>Clinical Microbiology Reviews</i> , 2019, 32, .	13.6	15
84	Exploration of the microbiota and metabolites within body fluids could pinpoint novel disease mechanisms. <i>FEBS Journal</i> , 2020, 287, 856-865.	4.7	14
85	The Mycotoxin Deoxynivalenol Significantly Alters the Function and Metabolism of Bovine Kidney Epithelial Cells In Vitro. <i>Toxins</i> , 2019, 11, 554.	3.4	13
86	Influence of the Human Gut Microbiome on the Metabolic Phenotype. , 2019, , 535-560.		13
87	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.	2.8	11
88	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, 142-149.	3.7	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. <i>PLoS ONE</i> , 2015, 10, e0120524.	2.5	10
90	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.	5.0	10

#	ARTICLE	IF	CITATIONS
91	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.	8.4	10
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.	8.2	8
93	Post-weaning A1/A2 Î²-casein milk intake modulates depressive-like behavior, brain Î¼-opioid receptors, and the metabolome of rats. <i>IScience</i> , 2021, 24, 103048.	4.1	8
94	â€œBowel on the Benchâ€: Proof of Concept of a Three-Stage, In Vitro Fermentation Model of the Equine Large Intestine. <i>Applied and Environmental Microbiology</i> , 2019, 86, .	3.1	7
95	The APOA1bpâ€“SREBFâ€“NOTCH axis is associated with reduced atherosclerosis risk in morbidly obese patients. <i>Clinical Nutrition</i> , 2020, 39, 3408-3418.	5.0	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. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1164, 122511.	2.3	7
97	Postnatal prebiotic supplementation in rats affects adult anxious behaviour, hippocampus, electrophysiology, metabolomics, and gut microbiota. <i>IScience</i> , 2021, 24, 103113.	4.1	7
98	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.	1.4	7
99	Microbe-Immune Crosstalk: Evidence That T Cells Influence the Development of the Brain Metabolome. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3259.	4.1	7
100	Biology of the Microbiome 2. <i>Gastroenterology Clinics of North America</i> , 2017, 46, 37-47.	2.2	6
101	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.	3.7	6
102	LowAMY1Copy Number Is Crossâ€“Sectionally Associated to an Inflammationâ€“Related Lipidomics Signature in Overweight and Obese Individuals. <i>Molecular Nutrition and Food Research</i> , 2020, 64, 1901151.	3.3	6
103	Microbiomes in physiology: insights into 21stâ€“century global medical challenges. <i>Experimental Physiology</i> , 2022, 107, 257-264.	2.0	6
104	Hay versus haylage: Forage type influences the equine urinary metabonome and faecal microbiota. <i>Equine Veterinary Journal</i> , 2022, 54, 614-625.	1.7	5
105	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.	3.7	4
106	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.	3.3	4
107	An In Vitro Pilot Fermentation Study on the Impact of <i>Chlorella pyrenoidosa</i> on Gut Microbiome Composition and Metabolites in Healthy and Coeliac Subjects. <i>Molecules</i> , 2021, 26, 2330.	3.8	4
108	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.	3.0	3

#	ARTICLE	IF	CITATIONS
109	Intervention and Mechanisms of Alanyl-L-glutamine for Inflammation, Nutrition, and Enteropathy. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2020, 71, 393-400.	1.8	3
110	Associations between biomarkers of environmental enteric dysfunction and oral rotavirus vaccine immunogenicity in rural Zimbabwean infants. <i>EClinicalMedicine</i> , 2021, 41, 101173.	7.1	3
111	The effect of a hydrolyzed protein diet on the fecal microbiota in cats with chronic enteropathy. <i>Scientific Reports</i> , 2022, 12, 2746.	3.3	3
112	Editorial overview: CNS diseases and the microbiome. <i>Current Opinion in Pharmacology</i> , 2019, 48, x-xii.	3.5	2
113	Novel Relationship Between Plasmalogen Lipid Signatures and Carnosine in Humans. <i>Molecular Nutrition and Food Research</i> , 2021, 65, 2100164.	3.3	2
114	Targeting microbial metabolites to treat autism. <i>Nature Medicine</i> , 2022, 28, 448-450.	30.7	2
115	Decoding Hidden Messages: Can Fecal Host Transcriptomics Open Pathways to Understanding Environmental Enteropathy?. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2016, 2, 114-115.	4.5	0