

Mark P Hodson

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

2,344
citations

236612

25
h-index

233125

45
g-index

68
all docs

68
docs citations

68
times ranked

4014
citing authors

#	ARTICLE	IF	CITATIONS
1	Elevation of fatty acid desaturase ² in esophageal adenocarcinoma increases polyunsaturated lipids and may exacerbate bile acid-induced DNA damage. <i>Clinical and Translational Medicine</i> , 2022, 12, e810.	1.7	6
2	Analysing intracellular isoprenoid metabolites in diverse prokaryotic and eukaryotic microbes. <i>Methods in Enzymology</i> , 2022, , .	0.4	1
3	KrÄppel-like factor 1 is a core cardiomyogenic trigger in zebrafish. <i>Science</i> , 2021, 372, 201-205.	6.0	32
4	Simultaneous quantification of 26 NAD-related metabolites in plasma, blood, and liver tissue using UHPLC-MS/MS. <i>Analytical Biochemistry</i> , 2021, 633, 114409.	1.1	7
5	Bisphosphonate drugs have actions in the lung and inhibit the mevalonate pathway in alveolar macrophages. <i>ELife</i> , 2021, 10, .	2.8	9
6	Triheptanoin alters [U- ¹³ C] ₆ -glucose incorporation into glycolytic intermediates and increases TCA cycling by normalizing the activities of pyruvate dehydrogenase and oxoglutarate dehydrogenase in a chronic epilepsy mouse model. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 678-691.	2.4	16
7	The Developmental Stages of Sugarcane Stalk are Equivalent between Plants of Different Chronological Ages. <i>Tropical Plant Biology</i> , 2020, 13, 136-149.	1.0	0
8	Characterization and validation of a preventative therapy for hypertrophic cardiomyopathy in a murine model of the disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23113-23124.	3.3	7
9	Chronic High-Fat Diet Induces Early Barrett's Esophagus in Mice through Lipidome Remodeling. <i>Biomolecules</i> , 2020, 10, 776.	1.8	10
10	Class IIa Histone Deacetylases Drive Toll-like Receptor-Inducible Glycolysis and Macrophage Inflammatory Responses via Pyruvate Kinase M2. <i>Cell Reports</i> , 2020, 30, 2712-2728.e8.	2.9	51
11	Adaptation of hydroxymethylbutenyl diphosphate reductase enables volatile isoprenoid production. <i>ELife</i> , 2020, 9, .	2.8	19
12	Physico-chemical and biochemical properties of low fat Cheddar cheese made from micron to nano sized milk fat emulsions. <i>Journal of Food Engineering</i> , 2019, 242, 94-105.	2.7	13
13	Impaired Pentose Phosphate Pathway in the Spinal Cord of the hSOD1G93A Mouse Model of Amyotrophic Lateral Sclerosis. <i>Molecular Neurobiology</i> , 2019, 56, 5844-5855.	1.9	22
14	Systems-level engineering and characterisation of <i>Clostridium autoethanogenum</i> through heterologous production of poly-3-hydroxybutyrate (PHB). <i>Metabolic Engineering</i> , 2019, 53, 14-23.	3.6	57
15	Quantitative analysis of tetrahydrofolate metabolites from <i>clostridium autoethanogenum</i> . <i>Metabolomics</i> , 2018, 14, 35.	1.4	5
16	Improved performance of <i>Pseudomonas putida</i> in a bioelectrochemical system through overexpression of periplasmic glucose dehydrogenase. <i>Biotechnology and Bioengineering</i> , 2018, 115, 145-155.	1.7	37
17	Metabolites Identified during Varied Doses of <i>Aspergillus</i> Species in <i>Zea mays</i> Grains, and Their Correlation with Aflatoxin Levels. <i>Toxins</i> , 2018, 10, 187.	1.5	11
18	Systems-based approaches enable identification of gene targets which improve the flavour profile of low-ethanol wine yeast strains. <i>Metabolic Engineering</i> , 2018, 49, 178-191.	3.6	16

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19	Production of <i>N</i> -acyl homoserine lactones by the sponge-associated marine actinobacteria <i>Salinispora arenicola</i> and <i>Salinispora pacifica</i> . FEMS Microbiology Letters, 2017, 364, fnx002.	0.7	21
20	Arginine deiminase pathway provides ATP and boosts growth of the gas-fermenting acetogen <i>Clostridium autoethanogenum</i> . Metabolic Engineering, 2017, 41, 202-211.	3.6	96
21	Persistently Altered Metabolic Phenotype following Perinatal Excitotoxic Brain Injury. Developmental Neuroscience, 2017, 39, 182-191.	1.0	19
22	A squalene synthase protein degradation method for improved sesquiterpene production in <i>Saccharomyces cerevisiae</i> . Metabolic Engineering, 2017, 39, 209-219.	3.6	91
23	Increased liver AGEs induce hepatic injury mediated through an OST48 pathway. Scientific Reports, 2017, 7, 12292.	1.6	22
24	Functional screening in human cardiac organoids reveals a metabolic mechanism for cardiomyocyte cell cycle arrest. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8372-E8381.	3.3	361
25	Targeted mitochondrial therapy using MitoQ shows equivalent renoprotection to angiotensin converting enzyme inhibition but no combined synergy in diabetes. Scientific Reports, 2017, 7, 15190.	1.6	34
26	Quantitative analysis of aromatics for synthetic biology using liquid chromatography. Biotechnology Journal, 2017, 12, 1600269.	1.8	13
27	Dynamic Metabolomics Reveals that Insulin Primes the Adipocyte for Glucose Metabolism. Cell Reports, 2017, 21, 3536-3547.	2.9	55
28	Biomolecular changes that occur in the antennal gland of the giant freshwater prawn (<i>Machrobrachium rosenbergii</i>). PLoS ONE, 2017, 12, e0177064.	1.1	13
29	Alterations in Cytosolic and Mitochondrial [¹³ C]Glucose Metabolism in a Chronic Epilepsy Mouse Model. ENeuro, 2017, 4, ENEURO.0341-16.2017.	0.9	39
30	Chemical Characterization and in Vitro Cytotoxicity on Squamous Cell Carcinoma Cells of Carica Papaya Leaf Extracts. Toxins, 2016, 8, 7.	1.5	37
31	Simultaneous Determination of Sugars, Carboxylates, Alcohols and Aldehydes from Fermentations by High Performance Liquid Chromatography. Fermentation, 2016, 2, 6.	1.4	17
32	Metabolic Reconstruction of <i>Setaria italica</i> : A Systems Biology Approach for Integrating Tissue-Specific Omics and Pathway Analysis of Bioenergy Grasses. Frontiers in Plant Science, 2016, 7, 1138.	1.7	24
33	Systems biology and metabolic modelling unveils limitations to polyhydroxybutyrate accumulation in sugarcane leaves; lessons for <i>4</i> engineering. Plant Biotechnology Journal, 2016, 14, 567-580.	4.1	17
34	Microbial biotransformation of polyphenols during in vitro colonic fermentation of masticated mango and banana. Food Chemistry, 2016, 207, 214-222.	4.2	21
35	Tetanus toxin production is triggered by the transition from amino acid consumption to peptides. Anaerobe, 2016, 41, 113-124.	1.0	13
36	The effect of weightbearing and limb load cycling on equine lamellar perfusion and energy metabolism measured using tissue microdialysis. Equine Veterinary Journal, 2016, 48, 114-119.	0.9	22

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37	Microdialysis measurements of lamellar perfusion and energy metabolism during the development of laminitis in the oligofructose model. <i>Equine Veterinary Journal</i> , 2016, 48, 246-252.	0.9	13
38	Low carbon fuels and commodity chemicals from waste gases – systematic approach to understand energy metabolism in a model acetogen. <i>Green Chemistry</i> , 2016, 18, 3020-3028.	4.6	143
39	Traditional Aboriginal Preparation Alters the Chemical Profile of <i>Carica papaya</i> Leaves and Impacts on Cytotoxicity towards Human Squamous Cell Carcinoma. <i>PLoS ONE</i> , 2016, 11, e0147956.	1.1	31
40	LC-MS-Based Metabolomics Study of Marine Bacterial Secondary Metabolite and Antibiotic Production in <i>Salinispora arenicola</i> . <i>Marine Drugs</i> , 2015, 13, 249-266.	2.2	45
41	Systems analysis of methylerythritol-phosphate pathway flux in <i>E. coli</i> : insights into the role of oxidative stress and the validity of lycopene as an isoprenoid reporter metabolite. <i>Microbial Cell Factories</i> , 2015, 14, 193.	1.9	24
42	A liquid chromatography–tandem mass spectrometry-based investigation of the lamellar interstitial metabolome in healthy horses and during experimental laminitis induction. <i>Veterinary Journal</i> , 2015, 206, 161-169.	0.6	12
43	A novel anticonvulsant mechanism via inhibition of complement receptor C5ar1 in murine epilepsy models. <i>Neurobiology of Disease</i> , 2015, 76, 87-97.	2.1	55
44	The use of an acetoacetyl-CoA synthase in place of a ketothiolase enhances poly-3-hydroxybutyrate production in sugarcane mesophyll cells. <i>Plant Biotechnology Journal</i> , 2015, 13, 700-707.	4.1	21
45	Protocols for the Production and Analysis of Isoprenoids in Bacteria and Yeast. <i>Springer Protocols</i> , 2015, , 23-52.	0.1	8
46	Two Peptides, Cycloaspeptide A and Nazumamide A from a Sponge Associated Marine Actinobacterium <i>Salinispora</i> sp. <i>Natural Product Communications</i> , 2014, 9, 1934578X1400900.	0.2	10
47	Bacterial production of the fungus-derived cholesterol-lowering agent mevinoлин. <i>Biomedical Chromatography</i> , 2014, 28, 1163-1166.	0.8	8
48	Increased sensitivity to tryptophan bioavailability is a positive adaptation by the human strains of <i>Chlamydia pneumoniae</i> . <i>Molecular Microbiology</i> , 2014, 93, 797-813.	1.2	15
49	Effects of salinity on antibiotic production in sponge-derived <i>Salinispora</i> actinobacteria. <i>Journal of Applied Microbiology</i> , 2014, 117, 109-125.	1.4	19
50	Alterations of Hippocampal Glucose Metabolism by Even versus Uneven Medium Chain Triglycerides. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 153-160.	2.4	27
51	Discovering the Recondite Secondary Metabolome Spectrum of <i>Salinispora</i> Species: A Study of Inter-Species Diversity. <i>PLoS ONE</i> , 2014, 9, e91488.	1.1	33
52	Two peptides, cycloaspeptide A and nazumamide A from a sponge associated marine actinobacterium <i>Salinispora</i> sp. <i>Natural Product Communications</i> , 2014, 9, 545-6.	0.2	7
53	Flux balance analysis of CHO cells before and after a metabolic switch from lactate production to consumption. <i>Biotechnology and Bioengineering</i> , 2013, 110, 660-666.	1.7	106
54	Metabolite profiling of CHO cells with different growth characteristics. <i>Biotechnology and Bioengineering</i> , 2012, 109, 1404-1414.	1.7	98

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55	A Multi-Omics Analysis of Recombinant Protein Production in Hek293 Cells. PLoS ONE, 2012, 7, e43394.	1.1	99
56	The enhanced value of combining conventional and omics analyses in early assessment of drug-induced hepatobiliary injury. Toxicology and Applied Pharmacology, 2011, 252, 97-111.	1.3	58
57	Inflammatory-Induced Hibernation in the Fetus: Priming of Fetal Sheep Metabolism Correlates with Developmental Brain Injury. PLoS ONE, 2011, 6, e29503.	1.1	16
58	An approach for the development and selection of chromatographic methods for high-throughput metabolomic screening of urine by ultra pressure LC-ESI-ToF-MS. Metabolomics, 2009, 5, 166-182.	1.4	26
59	Multi-platform investigation of the metabolome in a leptin receptor defective murine model of type 2 diabetes. Molecular BioSystems, 2008, 4, 1015.	2.9	22
60	A gender-specific discriminator in Sprague-Dawley rat urine: The deployment of a metabolic profiling strategy for biomarker discovery and identification. Analytical Biochemistry, 2007, 362, 182-192.	1.1	46
61	An NMR-based metabolic profiling study of inflammatory pain using the rat FCA model. Metabolomics, 2007, 3, 29-39.	1.4	9
62	Tryptophan/NAD+ pathway metabolites as putative biomarkers and predictors of peroxisome proliferation. Archives of Toxicology, 2005, 79, 208-223.	1.9	44
63	Development of a multivariate statistical model to predict peroxisome proliferation in the rat, based on urinary ¹ H-NMR spectral patterns. Biomarkers, 2004, 9, 364-385.	0.9	37
64	Potential urinary and plasma biomarkers of peroxisome proliferation in the rat: identification of N-methylnicotinamide and N-methyl-4-pyridone-3-carboxamide by ¹ H nuclear magnetic resonance and high performance liquid chromatography. Biomarkers, 2003, 8, 240-271.	0.9	71