

Zhennan Gu

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,613
citations

304743

22
h-index

315739

38
g-index

55
all docs

55
docs citations

55
times ranked

2567
citing authors

#	ARTICLE	IF	CITATIONS
1	Dietary supplementation with low-dose xylooligosaccharide promotes the anti-Salmonella activity of probiotic <i>Lactiplantibacillus plantarum</i> ZS2058 in a murine model. <i>Food Research International</i> , 2022, 151, 110858.	6.2	10
2	<i>Myristica fragrans</i> Extract Regulates Gut Microbes and Metabolites to Attenuate Hepatic Inflammation and Lipid Metabolism Disorders via the AhR-FAS and NF- κ B Signaling Pathways in Mice with Non-Alcoholic Fatty Liver Disease. <i>Nutrients</i> , 2022, 14, 1699.	4.1	11
3	<i>Bifidobacterium adolescentis</i> Isolated from Different Hosts Modifies the Intestinal Microbiota and Displays Differential Metabolic and Immunomodulatory Properties in Mice Fed a High-Fat Diet. <i>Nutrients</i> , 2021, 13, 1017.	4.1	25
4	Targeting the Gut Microbiota for Remediating Obesity and Related Metabolic Disorders. <i>Journal of Nutrition</i> , 2021, 151, 1703-1716.	2.9	7
5	Dietary Supplementation of n-3 LCPUFAs Prevents Salmonellosis in a Murine Model. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 128-137.	5.2	13
6	Potential of gut microbiome for detection of autism spectrum disorder. <i>Microbial Pathogenesis</i> , 2020, 149, 104568.	2.9	21
7	The Protective Effect of <i>Myristica fragrans</i> Houtt. Extracts Against Obesity and Inflammation by Regulating Free Fatty Acids Metabolism in Nonalcoholic Fatty Liver Disease. <i>Nutrients</i> , 2020, 12, 2507.	4.1	16
8	Resolvin D1 and D2 inhibit tumour growth and inflammation via modulating macrophage polarization. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 8045-8056.	3.6	46
9	Synergistic Effect of Eugenol and Probiotic <i>Lactobacillus Plantarum</i> Zs2058 against Salmonella Infection in C57bl/6 Mice. <i>Nutrients</i> , 2020, 12, 1611.	4.1	10
10	Role of <i>gpdh</i> and <i>leuB</i> on Lipid Accumulation in <i>Mucor circinelloides</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 4245-4251.	5.2	16
11	Tetrahydrobiopterin Plays a Functionally Significant Role in Lipogenesis in the Oleaginous Fungus <i>Mortierella alpina</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 250.	3.5	7
12	The role of MTHFDL in mediating intracellular lipogenesis in oleaginous <i>Mortierella alpina</i> . <i>Microbiology (United Kingdom)</i> , 2020, 166, 617-623.	1.8	2
13	Distinct Gut Microbiota Induced by Different Fat-to-Sugar-Ratio High-Energy Diets Share Similar Pro-obesity Genetic and Metabolite Profiles in Prediabetic Mice. <i>MSystems</i> , 2019, 4, .	3.8	18
14	Structural Determinants of Substrate Specificity of Omega-3 Desaturases from <i>Mortierella alpina</i> and <i>Rhizophagus irregularis</i> by Domain-Swapping and Molecular Docking. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1603.	4.1	5
15	Characterization and molecular docking of new Δ^{17} fatty acid desaturase genes from <i>Rhizophagus irregularis</i> and <i>Octopus bimaculoides</i> . <i>RSC Advances</i> , 2019, 9, 6871-6880.	3.6	7
16	<i>Lactobacillus plantarum</i> ZS2058 and <i>Lactobacillus rhamnosus</i> GG Use Different Mechanisms to Prevent Salmonella Infection in vivo. <i>Frontiers in Microbiology</i> , 2019, 10, 299.	3.5	28
17	An efficient strategy for screening polyunsaturated fatty acid-producing oleaginous filamentous fungi from soil. <i>Journal of Microbiological Methods</i> , 2019, 158, 80-85.	1.6	12
18	Preventive effects of <i>Lactobacillus plantarum</i> ST-III against Salmonella infection. <i>LWT - Food Science and Technology</i> , 2019, 105, 200-205.	5.2	10

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19	Multiple mechanisms applied by <i>Lactobacillus pentosus</i> AT6 to mute the lethal effects of <i>Salmonella</i> in a mouse model. <i>Food and Function</i> , 2018, 9, 2787-2795.	4.6	11
20	Application of high EPA-producing <i>Mortierella alpina</i> in laying hen feed for egg DHA accumulation. <i>RSC Advances</i> , 2018, 8, 39005-39012.	3.6	2
21	Molecular mechanism of substrate preference for ω -3 fatty acid desaturase from <i>Mortierella alpina</i> by mutational analysis and molecular docking. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 9679-9689.	3.6	10
22	Strain-specific properties of <i>Lactobacillus plantarum</i> for prevention of <i>Salmonella</i> infection. <i>Food and Function</i> , 2018, 9, 3673-3682.	4.6	42
23	Characterization of an Omega-3 Desaturase From <i>Phytophthora parasitica</i> and Application for Eicosapentaenoic Acid Production in <i>Mortierella alpina</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 1878.	3.5	24
24	Dietary intake of n-3 PUFAs modifies the absorption, distribution and bioavailability of fatty acids in the mouse gastrointestinal tract. <i>Lipids in Health and Disease</i> , 2017, 16, 10.	3.0	27
25	Comparative Proteome Analysis between High Lipid-Producing Strain <i>Mucor circinelloides</i> WJ11 and Low Lipid-Producing Strain CBS 277.49. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 5074-5082.	5.2	22
26	Protective effects of a cocktail of lactic acid bacteria on microcystin-LR-induced hepatotoxicity and oxidative damage in BALB/c mice. <i>RSC Advances</i> , 2017, 7, 20480-20487.	3.6	7
27	Microbial Biogeography and Core Microbiota of the Rat Digestive Tract. <i>Scientific Reports</i> , 2017, 7, 45840.	3.3	127
28	Chemoprevention of Colorectal Cancer by Artocarpin, a Dietary Phytochemical from <i>Artocarpus heterophyllus</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 3474-3480.	5.2	36
29	Evaluation of methylations and external/internal standard quantification of lipids using gas chromatography-mass spectrometry. <i>Analytical Methods</i> , 2017, 9, 419-426.	2.7	4
30	Endogenous omega-3 long-chain fatty acid biosynthesis from alpha-linolenic acid is affected by substrate levels, gene expression, and product inhibition. <i>RSC Advances</i> , 2017, 7, 40946-40951.	3.6	7
31	Clove extract functions as a natural fatty acid synthesis inhibitor and prevents obesity in a mouse model. <i>Food and Function</i> , 2017, 8, 2847-2856.	4.6	23
32	Dietary supplementation of α -linolenic acid induced conversion of n-3 LCPUFAs and reduced prostate cancer growth in a mouse model. <i>Lipids in Health and Disease</i> , 2017, 16, 136.	3.0	28
33	Application of a ω -3 Desaturase with an Arachidonic Acid Preference to Eicosapentaenoic Acid Production in <i>Mortierella alpina</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2017, 5, 89.	4.1	25
34	Substrate specificity of <i>Mortierella alpina</i> ω -III fatty acid desaturase and its value for the production of omega-9 MUFA. <i>European Journal of Lipid Science and Technology</i> , 2016, 118, 753-760.	1.5	9
35	Metabolic Engineering of <i>Mortierella alpina</i> for Enhanced Arachidonic Acid Production through the NADPH-Supplying Strategy. <i>Applied and Environmental Microbiology</i> , 2016, 82, 3280-3288.	3.1	56
36	Production of GDP-l-fucose from exogenous fucose through the salvage pathway in <i>Mortierella alpina</i> . <i>RSC Advances</i> , 2016, 6, 46308-46316.	3.6	0

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37	Biochemical characterization of an isoform of GDP-d-mannose-4,6-dehydratase from <i>Mortierella alpina</i> . <i>Biotechnology Letters</i> , 2016, 38, 1761-1768.	2.2	3
38	Application of a delta-6 desaturase with $\hat{\pm}$ -linolenic acid preference on eicosapentaenoic acid production in <i>Mortierella alpina</i> . <i>Microbial Cell Factories</i> , 2016, 15, 117.	4.0	45
39	<i>Lactobacillus plantarum</i> ZS2058 produces CLA to ameliorate DSS-induced acute colitis in mice. <i>RSC Advances</i> , 2016, 6, 14457-14464.	3.6	35
40	Characterization of a fungal l-fucokinase involved in <i>Mortierella alpina</i> GDP-l-fucose salvage pathway. <i>Glycobiology</i> , 2016, 26, 880-887.	2.5	9
41	Role of dihydrofolate reductase in tetrahydrobiopterin biosynthesis and lipid metabolism in the oleaginous fungus <i>Mortierella alpina</i> . <i>Microbiology (United Kingdom)</i> , 2016, 162, 1544-1553.	1.8	9
42	A new potential secretion pathway for recombinant proteins in <i>Bacillus subtilis</i> . <i>Microbial Cell Factories</i> , 2015, 14, 179.	4.0	22
43	Molecular mechanism of substrate specificity for delta 6 desaturase from <i>Mortierella alpina</i> and <i>Micromonas pusilla</i> . <i>Journal of Lipid Research</i> , 2015, 56, 2309-2321.	4.2	36
44	Metabolic engineering of <i>Mortierella alpina</i> for arachidonic acid production with glycerol as carbon source. <i>Microbial Cell Factories</i> , 2015, 14, 205.	4.0	34
45	Determining Antioxidant Activities of <i>Lactobacilli</i> Cell-Free Supernatants by Cellular Antioxidant Assay: A Comparison with Traditional Methods. <i>PLoS ONE</i> , 2015, 10, e0119058.	2.5	97
46	n-3 Polyunsaturated Fatty Acids and Their Role in Cancer Chemoprevention. <i>Current Pharmacology Reports</i> , 2015, 1, 283-294.	3.0	65
47	Identification of a critical determinant that enables efficient fatty acid synthesis in oleaginous fungi. <i>Scientific Reports</i> , 2015, 5, 11247.	3.3	83
48	Cellular model to assess the antioxidant activity of <i>Lactobacilli</i> . <i>RSC Advances</i> , 2015, 5, 37626-37634.	3.6	13
49	Complete genome sequence of <i>Lactobacillus plantarum</i> ZS2058, a probiotic strain with high conjugated linoleic acid production ability. <i>Journal of Biotechnology</i> , 2015, 214, 212-213.	3.8	11
50	Ribosomal protein $\hat{\epsilon}$ -p53 pathway coordinates nutrient stress with lipid metabolism by regulating MCD and promoting fatty acid oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2414-22.	7.1	91
51	Fatty acid metabolism: Implications for diet, genetic variation, and disease. <i>Food Bioscience</i> , 2013, 4, 1-12.	4.4	32
52	$\hat{\omega}$ 3 fatty acid desaturases from microorganisms: structure, function, evolution, and biotechnological use. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 10255-10262.	3.6	42
53	Mechanisms of Omega-3 Polyunsaturated Fatty Acids in Prostate Cancer Prevention. <i>BioMed Research International</i> , 2013, 2013, 1-10.	1.9	75
54	Polyunsaturated fatty acids affect the localization and signaling of PIP3/AKT in prostate cancer cells. <i>Carcinogenesis</i> , 2013, 34, 1968-1975.	2.8	54

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55	Genome Characterization of the Oleaginous Fungus <i>Mortierella alpina</i> . PLoS ONE, 2011, 6, e28319.	2.5	133