

Lixin Zhu

List of Publications by Year in descending order

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Version: 2024-02-01

130
papers

5,267
citations

117625

34
h-index

91884

69
g-index

140
all docs

140
docs citations

140
times ranked

8357
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of gut microbiomes in nonalcoholic steatohepatitis (NASH) patients: A connection between endogenous alcohol and NASH. <i>Hepatology</i> , 2013, 57, 601-609.	7.3	1,321
2	Suppressed hepatic bile acid signalling despite elevated production of primary and secondary bile acids in NAFLD. <i>Gut</i> , 2018, 67, 1881-1891.	12.1	438
3	Structural changes in the gut microbiome of constipated patients. <i>Physiological Genomics</i> , 2014, 46, 679-686.	2.3	271
4	Gut microbiome may contribute to insulin resistance and systemic inflammation in obese rodents: a meta-analysis. <i>Physiological Genomics</i> , 2018, 50, 244-254.	2.3	198
5	Pathogenesis of nonalcoholic steatohepatitis. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 1969-1987.	5.4	151
6	Role of Alcohol Metabolism in Non-Alcoholic Steatohepatitis. <i>PLoS ONE</i> , 2010, 5, e9570.	2.5	146
7	Enteric involvement in hospitalised patients with COVID-19 outside Wuhan. <i>The Lancet Gastroenterology and Hepatology</i> , 2020, 5, 534-535.	8.1	128
8	Gut microbiome and nonalcoholic fatty liver diseases. <i>Pediatric Research</i> , 2015, 77, 245-251.	2.3	123
9	Identification of microbial markers across populations in early detection of colorectal cancer. <i>Nature Communications</i> , 2021, 12, 3063.	12.8	109
10	Upregulation of Hemoglobin Expression by Oxidative Stress in Hepatocytes and Its Implication in Nonalcoholic Steatohepatitis. <i>PLoS ONE</i> , 2011, 6, e24363.	2.5	101
11	In Children With Nonalcoholic Fatty Liver Disease, Cysteamine Bitartrate Delayed Release Improves Liver Enzymes but Does Not Reduce Disease Activity Scores. <i>Gastroenterology</i> , 2016, 151, 1141-1154.e9.	1.3	100
12	Multi-kingdom microbiota analyses identify bacterial-fungal interactions and biomarkers of colorectal cancer across cohorts. <i>Nature Microbiology</i> , 2022, 7, 238-250.	13.3	99
13	Saturated long-chain fatty acid-producing bacteria contribute to enhanced colonic motility in rats. <i>Microbiome</i> , 2018, 6, 107.	11.1	92
14	Effect of Dietary Advanced Glycation End Products on Mouse Liver. <i>PLoS ONE</i> , 2012, 7, e35143.	2.5	81
15	Gastrointestinal sequelae 90 days after discharge for COVID-19. <i>The Lancet Gastroenterology and Hepatology</i> , 2021, 6, 344-346.	8.1	80
16	Antioxidant Mechanisms in Nonalcoholic Fatty Liver Disease. <i>Current Drug Targets</i> , 2015, 16, 1301-1314.	2.1	79
17	Potassium Channels: Structures, Diseases, and Modulators. <i>Chemical Biology and Drug Design</i> , 2014, 83, 1-26.	3.2	77
18	Drugs and Targets in Fibrosis. <i>Frontiers in Pharmacology</i> , 2017, 8, 855.	3.5	77

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19	High turnover of ezrin T567 phosphorylation: conformation, activity, and cellular function. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 293, C874-C884.	4.6	69
20	Apical Recycling of the Gastric Parietal Cell H,K-ATPase. <i>Annual Review of Physiology</i> , 2010, 72, 273-296.	13.1	61
21	Lipid in the livers of adolescents with nonalcoholic steatohepatitis: combined effects of pathways on steatosis. <i>Metabolism: Clinical and Experimental</i> , 2011, 60, 1001-1011.	3.4	59
22	Endotoxemia unrequired in the pathogenesis of pediatric nonalcoholic steatohepatitis. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2014, 29, 1292-1298.	2.8	57
23	In Children With Nonalcoholic Fatty Liver Disease, Zone 1 Steatosis Is Associated With Advanced Fibrosis. <i>Clinical Gastroenterology and Hepatology</i> , 2018, 16, 438-446.e1.	4.4	56
24	Phosphorylation of ezrin on threonine 567 produces a change in secretory phenotype and repolarizes the gastric parietal cell. <i>Journal of Cell Science</i> , 2005, 118, 4381-4391.	2.0	55
25	Multi-targeting therapeutic mechanisms of the Chinese herbal medicine QHD in the treatment of non-alcoholic fatty liver disease. <i>Oncotarget</i> , 2017, 8, 27820-27838.	1.8	55
26	gp130 dimerization in the absence of ligand: Preformed cytokine receptor complexes. <i>Biochemical and Biophysical Research Communications</i> , 2006, 346, 649-657.	2.1	53
27	Role of gut microbiota in functional constipation. <i>Gastroenterology Report</i> , 2021, 9, 392-401.	1.3	53
28	Induction of CYP2E1 in non-alcoholic fatty liver diseases. <i>Experimental and Molecular Pathology</i> , 2015, 99, 677-681.	2.1	52
29	Melatonin ameliorates necrotizing enterocolitis by preventing Th17/Treg imbalance through activation of the AMPK/SIRT1 pathway. <i>Theranostics</i> , 2020, 10, 7730-7746.	10.0	50
30	Gut Microbiota of Nonalcoholic Fatty Liver Disease. <i>Digestive Diseases and Sciences</i> , 2016, 61, 1268-1281.	2.3	46
31	Gut microbiota produce alcohol and contribute to NAFLD. <i>Gut</i> , 2016, 65, 1232-1232.	12.1	42
32	Inhibition of lysosomal enzyme activities by proton pump inhibitors. <i>Journal of Gastroenterology</i> , 2013, 48, 1343-1352.	5.1	41
33	Systematic transcriptome analysis reveals elevated expression of alcohol-metabolizing genes in <scp>NAFLD</scp> livers. <i>Journal of Pathology</i> , 2016, 238, 531-542.	4.5	40
34	Phosphorylation of radixin regulates cell polarity and Mrp-2 distribution in hepatocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2011, 300, C416-C424.	4.6	38
35	Gut microbiota contributes to the distinction between two traditional Chinese medicine syndromes of ulcerative colitis. <i>World Journal of Gastroenterology</i> , 2019, 25, 3242-3255.	3.3	37
36	Restoration of Na ⁺ /H ⁺ exchanger NHE3-containing macrocomplexes ameliorates diabetes-associated fluid loss. <i>Journal of Clinical Investigation</i> , 2015, 125, 3519-3531.	8.2	36

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37	Ezrin oligomers are the membrane-bound dormant form in gastric parietal cells. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 288, C1242-C1254.	4.6	33
38	Paraoxonase 1 and oxidative stress in paediatric non-alcoholic steatohepatitis. <i>Liver International</i> , 2014, 34, 110-117.	3.9	30
39	Multipronged Therapeutic Effects of Chinese Herbal Medicine Qishenyiqi in the Treatment of Acute Myocardial Infarction. <i>Frontiers in Pharmacology</i> , 2017, 8, 98.	3.5	30
40	The Response of the Gut Microbiota to Dietary Changes in the First Two Years of Life. <i>Frontiers in Pharmacology</i> , 2020, 11, 334.	3.5	29
41	Acid secretion-associated translocation of KCNJ15 in gastric parietal cells. <i>American Journal of Physiology - Renal Physiology</i> , 2011, 301, G591-G600.	3.4	24
42	Increased apolipoprotein A5 expression in human and rat non-alcoholic fatty livers. <i>Pathology</i> , 2015, 47, 341-348.	0.6	24
43	A possible mechanism for ezrin to establish epithelial cell polarity. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 299, C431-C443.	4.6	23
44	Comparative study of ezrin phosphorylation among different tissues: more is good; too much is bad. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C192-C202.	4.6	22
45	Difference in Pathomechanism Between Crohn's Disease and Ulcerative Colitis Revealed by Colon Transcriptome. <i>Inflammatory Bowel Diseases</i> , 2019, 25, 722-731.	1.9	22
46	Altered gut microbiome in FUT2 loss-of-function mutants in support of personalized medicine for inflammatory bowel diseases. <i>Journal of Genetics and Genomics</i> , 2021, 48, 771-780.	3.9	21
47	Natural Active Compounds from Plant Food and Chinese Herbal Medicine for Nonalcoholic Fatty Liver Disease. <i>Current Pharmaceutical Design</i> , 2018, 23, 5136-5162.	1.9	21
48	A Rab11a-enriched subapical membrane compartment regulates a cytoskeleton-dependent transcytotic pathway in secretory epithelial cells of the lacrimal gland. <i>Journal of Cell Science</i> , 2011, 124, 3503-3514.	2.0	20
49	Moesin, an Ezrin/Radixin/Moesin Family Member, Regulates Hepatic Fibrosis. <i>Hepatology</i> , 2020, 72, 1073-1084.	7.3	20
50	Cellular Localization and Stimulation-Associated Distribution Dynamics of Syntaxin-1 and Syntaxin-3 in Gastric Parietal Cells. <i>Traffic</i> , 2005, 6, 654-666.	2.7	19
51	Anemia in Pediatric Inflammatory Bowel Disease. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2018, 67, 351-355.	1.8	19
52	Novel insights of the gastric gland organization revealed by chief cell specific expression of moesin. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, G185-G195.	3.4	17
53	Alterations in bile acid metabolizing gut microbiota and specific bile acid genes as a precision medicine to subclassify NAFLD. <i>Physiological Genomics</i> , 2021, 53, 336-348.	2.3	17
54	Systematic Analysis of the Gene Expression in the Livers of Nonalcoholic Steatohepatitis: Implications on Potential Biomarkers and Molecular Pathological Mechanism. <i>PLoS ONE</i> , 2012, 7, e51131.	2.5	17

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55	Rab27b Localizes to the Tubulovesicle Membranes of Gastric Parietal Cells and Regulates Acid Secretion. <i>Gastroenterology</i> , 2011, 140, 868-878.e2.	1.3	16
56	Interactions of bile acids and the gut microbiota: learning from the differences in <i>Clostridium difficile</i> infection between children and adults. <i>Physiological Genomics</i> , 2019, 51, 218-223.	2.3	16
57	Potassium channel KCNJ15 is required for histamine-stimulated gastric acid secretion. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 309, C264-C270.	4.6	15
58	Systematic Toxicity Mechanism Analysis of Proton Pump Inhibitors: An <i>In Silico</i> Study. <i>Chemical Research in Toxicology</i> , 2015, 28, 419-430.	3.3	15
59	Novel pathway for iron deficiency in pediatric non-alcoholic steatohepatitis. <i>Clinical Nutrition</i> , 2015, 34, 549-556.	5.0	15
60	bSiteFinder, an improved protein-binding sites prediction server based on structural alignment: more accurate and less time-consuming. <i>Journal of Cheminformatics</i> , 2016, 8, 38.	6.1	15
61	Distribution dynamics and functional importance of NHERF1 in regulation of Mrp-2 trafficking in hepatocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 307, C727-C737.	4.6	14
62	Sequencing the gut metagenome as a noninvasive diagnosis for advanced nonalcoholic steatohepatitis. <i>Hepatology</i> , 2017, 66, 2080-2083.	7.3	13
63	The roles of Qishen granules recipes, Qingre Jiedu, Wenyang Yiqi and Huo Xue, in the treatment of heart failure. <i>Journal of Ethnopharmacology</i> , 2020, 249, 112372.	4.1	13
64	Bile Acids and the Gut Microbiome as Potential Targets for NAFLD Treatment. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2018, 67, 3-5.	1.8	12
65	Female serotonin transporter knockout rat: A potential model of irritable bowel syndrome. <i>FASEB Journal</i> , 2021, 35, e21701.	0.5	12
66	Upregulation of non-canonical Wnt ligands and oxidative glucose metabolism in NASH induced by methionine-choline-deficient diet. <i>Trends in Cell & Molecular Biology</i> , 0, 22, 47.	0.5	12
67	The milk-based diet of infancy and the gut microbiome. <i>Gastroenterology Report</i> , 2019, 7, 246-249.	1.3	11
68	Connection Map for Compounds (CMC): A Server for Combinatorial Drug Toxicity and Efficacy Analysis. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 1615-1621.	5.4	10
69	Adverse Outcomes Associated With Corticosteroid Use in Critical COVID-19: A Retrospective Multicenter Cohort Study. <i>Frontiers in Medicine</i> , 2021, 8, 604263.	2.6	10
70	Risk factors for the critical illness in SARS-CoV-2 infection: a multicenter retrospective cohort study. <i>Respiratory Research</i> , 2020, 21, 277.	3.6	8
71	Suppressed Hepatic Bile Acid Signaling Despite Elevated Production of Primary and Secondary Bile Acids in NAFLD. <i>Gastroenterology</i> , 2017, 152, S1068.	1.3	7
72	Upregulation of non-canonical Wnt ligands and oxidative glucose metabolism in NASH induced by methionine-choline deficient diet. <i>Trends in Cell & Molecular Biology</i> , 2018, 13, 47-56.	0.5	7

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73	Reaction of Proton Pump Inhibitors With Model Peptides Results in Novel Products. Journal of Pharmacological Sciences, 2013, 122, 213-222.	2.5	6
74	The Proinflammatory Role of Guanylate-Binding Protein 5 in Inflammatory Bowel Diseases. Frontiers in Microbiology, 2022, 13, .	3.5	6
75	The Stereoselectivity of CYP2C19 on R- and S-isomers of Proton Pump Inhibitors. Chemical Biology and Drug Design, 2014, 83, 610-621.	3.2	5
76	Editorial (Thematic Issue: From Multiple Hits to Multiple Therapeutic Targets of Non-alcoholic Fatty) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.1	5
77	Dr <i>AFC</i> : drug repositioning through anti-fibrosis characteristic. Briefings in Bioinformatics, 2021, 22, .	6.5	5
78	High-Fat Diet Increases Clostridium Clusters XIVa in Obese Rodents: A Meta-Analysis. Gastroenterology, 2017, 152, S1012.	1.3	4
79	Genomics Approach of the Natural Product Pharmacology for High Impact Diseases. International Journal of Genomics, 2018, 2018, 1-2.	1.6	4
80	Secreted phosphoglucose isomerase is a novel biomarker of nonalcoholic fatty liver in mice and humans. Biochemical and Biophysical Research Communications, 2020, 529, 1101-1105.	2.1	3
81	Non-febrile COVID-19 patients were common and often became critically ill: a retrospective multicenter cohort study. Critical Care, 2020, 24, 314.	5.8	3
82	Teaching glycoproteins with a classical paper: Knowledge and methods in the course of an exciting discovery. Biochemistry and Molecular Biology Education, 2008, 36, 336-340.	1.2	2
83	Keystone Species in the Pathogenic Process of NAFLD. FASEB Journal, 2019, 33, 496.40.	0.5	2
84	Gut bacteria contributes to NAFLD pathogenesis by promoting secondary bile acids biosynthesis. FASEB Journal, 2019, 33, 126.4.	0.5	2
85	IBD Subtype-Regulators IFNG and GBP5 Identified by Causal Inference Drive More Intense Innate Immunity and Inflammatory Responses in CD Than Those in UC. Frontiers in Pharmacology, 2022, 13, 869200.	3.5	2
86	Tu1138 Genes of Alcohol Metabolism in Patients With Simple Steatosis and NASH. Gastroenterology, 2014, 146, S-763-S-764.	1.3	1
87	Editorial: Herbal Medicine on High Impact Disease: The Current Progress and Application. Current Pharmaceutical Design, 2018, 23, 5075-5076.	1.9	1
88	Role of Paraoxonase 1 as an Antioxidant in Nonalcoholic Steatohepatitis. , 2018, , 15-20.		1
89	In silico design of novel proton-pump inhibitors with reduced adverse effects. Frontiers of Medicine, 2019, 13, 277-284.	3.4	1
90	Mo1463 ANALYSIS AND APPLICATION OF KEYSTONE SPECIES IN NONALCOHOLIC FATTY LIVER DISEASE BASED ON CAUSAL INFERENCE AND DYNAMIC INTERVENTION MODELING. Gastroenterology, 2020, 158, S-1412-S-1413.	1.3	1

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91	Novel pathway for iron deficiency in pediatric non-alcoholic steatohepatitis (1042.1). <i>FASEB Journal</i> , 2014, 28, 1042.1.	0.5	1
92	The Roles of Qishen Granules Recipes, Qingre Jiedu, Wenyang Yiqi and Huo Xue, in the Treatment of Heart Failure. <i>FASEB Journal</i> , 2019, 33, 818.3.	0.5	1
93	243 Distribution Dynamics of Radixin and NHERF-1 on Regulation of MRP-2 Trafficking in Hepatocytes. <i>Gastroenterology</i> , 2010, 138, S-782.	1.3	0
94	Elevated Paraoxonase 1 (PON1) Activity in Pediatric Non-Alcoholic Steatohepatitis (NASH) Livers. <i>Gastroenterology</i> , 2011, 140, S-702.	1.3	0
95	Paraoxonase gene expression in patients with Inflammatory Bowel Disease. <i>Inflammatory Bowel Diseases</i> , 2011, 17, S65.	1.9	0
96	390 Inhibition of Lysosomal Enzyme Activities by Proton Pump Inhibitors. <i>Gastroenterology</i> , 2012, 142, S-86.	1.3	0
97	Tu1011 Serum Endotoxin Is Not Associated With Pediatric Non-Alcoholic Steatohepatitis. <i>Gastroenterology</i> , 2013, 144, S-1031.	1.3	0
98	398 D-Amino Acid Oxidase Gene Expression in Non-Alcoholic Steatohepatitis. <i>Gastroenterology</i> , 2013, 144, S-77.	1.3	0
99	Su1908 Potassium Channel KCNJ15 Is Required for Histamine Stimulated Gastric Acid Secretion. <i>Gastroenterology</i> , 2014, 146, S-498.	1.3	0
100	Tu2017 Non-Transferrin Bound Iron Transporter ZIP 14 in the Liver of Pediatric Non-Alcoholic Steatohepatitis Patients. <i>Gastroenterology</i> , 2014, 146, S-900.	1.3	0
101	Su1800 Systematic Analysis of NAFLD Transcriptome Revealed Elevated Expression of Alcohol Metabolizing Genes in Mild and Severe NAFLD Livers. <i>Gastroenterology</i> , 2015, 148, S-1054.	1.3	0
102	137 Overexpression of Bile Acid Synthesis Genes in Pediatric NASH. <i>Gastroenterology</i> , 2015, 148, S-36.	1.3	0
103	1052 D-Amino Acids as a Novel Link between Gut Microbiota and Non-Alcoholic Fatty Liver Disease. <i>Gastroenterology</i> , 2016, 150, S1056.	1.3	0
104	Mo1521 Transcriptional Regulation of Paraoxonase 1 in Pediatric NAFLD Livers. <i>Gastroenterology</i> , 2016, 150, S714.	1.3	0
105	Su1857 Pathological Similarities and Differences Between Crohn's Disease and Ulcerative Colitis Revealed by Systematic Transcriptome Analysis. <i>Gastroenterology</i> , 2016, 150, S571.	1.3	0
106	Hepatic Flavin Monooxygenase 3 (FMO3) is Highly Up Regulated in Nonalcoholic Fatty Liver Disease (NAFLD). <i>Gastroenterology</i> , 2017, 152, S1156-S1157.	1.3	0
107	317 " Gut Microbiota Contributes to Promoting Secondary Bile Acid Biosynthesis in Nafld Pathogenesis. <i>Gastroenterology</i> , 2019, 156, S-1190-S-1191.	1.3	0
108	Su1554 " Causal Inference Reveals that Clostridiales Species are Keystone Species in Nafld Pathogenesis. <i>Gastroenterology</i> , 2019, 156, S-1296.	1.3	0

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109	Su1542 “Keystone Species in the Pathogenesis of Non-Alcoholic Fatty Liver Disease. Gastroenterology, 2019, 156, S-1293.	1.3	0
110	Tu1257 THE IMPACT OF FUT2 DEFICIENCY ON THE GUT MICROBIOME IN INFLAMMATORY BOWEL DISEASES. Gastroenterology, 2020, 158, S-1034.	1.3	0
111	Tu1252 DAMP MOLECULES NMI AND IFP35 MAY MEDIATE EARLY INFLAMMATORY EVENTS IN THE PATHOGENESIS OF INFLAMMATORY BOWEL DISEASES. Gastroenterology, 2020, 158, S-1033.	1.3	0
112	Su1092 CAUSAL INFERENCE ANALYSIS OF THE TRANSCRIPTOME IDENTIFIED DIFFERENTIAL INNATE IMMUNITY AND INFLAMMATORY PATHWAY BETWEEN CROHN'S DISEASE AND ULCERATIVE COLITIS. Gastroenterology, 2020, 158, S-507.	1.3	0
113	Altered gut microbiome in FUT2 loss-of-function mutants in support of personalized medicine for inflammatory bowel diseases. FASEB Journal, 2021, 35, .	0.5	0
114	Fusobacterium nucleatum , a reproducible microbial marker for CRC prescreening. FASEB Journal, 2021, 35, .	0.5	0
115	Role of Guanylate-binding Protein 5 in Colonic Inflammation. FASEB Journal, 2021, 35, .	0.5	0
116	Comprehensive microbiota alterations in IBD and improved diagnostic accuracy for IBD using multi-kingdom microbial features. FASEB Journal, 2021, 35, .	0.5	0
117	Editorial: Microbiome in IBD: From Composition to Therapy. Frontiers in Pharmacology, 2021, 12, 721992.	3.5	0
118	Gastrointestinal Consequences of Discharged COVID-19 Patients: A Multicenter Cohort Study. SSRN Electronic Journal, 0, , .	0.4	0
119	Systematic analysis of the gene expression in the livers of nonalcoholic steatohepatitis: implications on potential biomarkers and molecular pathological mechanism. FASEB Journal, 2013, 27, 52.3.	0.5	0
120	Potassium channel KCNJ15 plays a critical role in gastric acid secretion (904.1). FASEB Journal, 2014, 28, 904.1.	0.5	0
121	Increased Insulin Resistance by Dextran Sulfate Sodium is Associated with Increased D-Amino Acids and Lipopolysaccharides in Rat. FASEB Journal, 2015, 29, 848.1.	0.5	0
122	Dextran Sulfate Sodium Enhances High Fat Diet Induced Insulin Resistance in Rat. FASEB Journal, 2015, 29, 848.2.	0.5	0
123	New strategy of drug repositioning through anti-fibrosis characteristic. FASEB Journal, 2019, 33, 670.17.	0.5	0
124	Identification of Key Factors in Cardiomyocyte Development by Single-Cell Transcriptome Analysis. FASEB Journal, 2020, 34, 1-1.	0.5	0
125	Meta-Analysis Reveals Gut Microbial Signatures in Colorectal Adenoma and A Link with Secondary Bile Acid Conversion. FASEB Journal, 2020, 34, 1-1.	0.5	0
126	FUT2 deficiency may influence the pathogenesis of inflammatory bowel diseases through gut microbiome. FASEB Journal, 2020, 34, 1-1.	0.5	0

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127	NMI and IFP35 are key DAMP molecules in inflammatory bowel diseases. FASEB Journal, 2020, 34, 1-1.	0.5	0
128	Microbial multidimensional signature assessment reveals microbial SNVs as the superior noninvasive biomarkers for early detection of colorectal cancer. FASEB Journal, 2022, 36, .	0.5	0
129	Altered gut microbiome structure and its association with inflammation markers in patients with Crohn's disease in comparison to healthy siblings. FASEB Journal, 2022, 36, .	0.5	0
130	Role of GBP5 in NLRP3 inflammasome mediated intestinal inflammation in Crohn's disease. FASEB Journal, 2022, 36, .	0.5	0