

Itaconate is an anti-inflammatory metabolite that activ

Nature

556, 113-117

DOI: [10.1038/nature25986](https://doi.org/10.1038/nature25986)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Itaconate helps KEAP1's cool. <i>Nature Reviews Immunology</i> , 2018, 18, 294-294.	10.6	4
2	Gut microbiota derived metabolites in cardiovascular health and disease. <i>Protein and Cell</i> , 2018, 9, 416-431.	4.8	274
3	Itaconate charges down inflammation. <i>Nature Reviews Immunology</i> , 2018, 18, 360-361.	10.6	17
4	Small, Thin Graphene Oxide Is Anti-inflammatory Activating Nuclear Factor Erythroid 2-Related Factor 2 via Metabolic Reprogramming. <i>ACS Nano</i> , 2018, 12, 11949-11962.	7.3	43
5	Four-octyl itaconate activates Keap1-Nrf2 signaling to protect neuronal cells from hydrogen peroxide. <i>Cell Communication and Signaling</i> , 2018, 16, 81.	2.7	73
6	Isotope Tracing Untargeted Metabolomics Reveals Macrophage Polarization-State-Specific Metabolic Coordination across Intracellular Compartments. <i>IScience</i> , 2018, 9, 298-313.	1.9	53
7	Targeting oxidative stress in diabetic kidney disease: a novel drug in an old pathway. <i>Kidney International</i> , 2018, 94, 1038-1039.	2.6	3
8	4-Octyl Itaconate Activates Nrf2 Signaling to Inhibit Pro-Inflammatory Cytokine Production in Peripheral Blood Mononuclear Cells of Systemic Lupus Erythematosus Patients. <i>Cellular Physiology and Biochemistry</i> , 2018, 51, 979-990.	1.1	61
9	A Defective Pentose Phosphate Pathway Reduces Inflammatory Macrophage Responses during Hypercholesterolemia. <i>Cell Reports</i> , 2018, 25, 2044-2052.e5.	2.9	140
10	Itaconate: an emerging determinant of inflammation in activated macrophages. <i>Immunology and Cell Biology</i> , 2019, 97, 134-141.	1.0	66
11	Metabolism Plays a Key Role during Macrophage Activation. <i>Mediators of Inflammation</i> , 2018, 2018, 1-10.	1.4	57
12	The Sweet Surrender: How Myeloid Cell Metabolic Plasticity Shapes the Tumor Microenvironment. <i>Frontiers in Cell and Developmental Biology</i> , 2018, 6, 168.	1.8	30
13	Sparks Fly in PGE2-Modulated Macrophage Polarization. <i>Immunity</i> , 2018, 49, 987-989.	6.6	4
14	Zinc-binding triggers a conformational-switch in the cullin-3 substrate adaptor protein KEAP1 that controls transcription factor NRF2. <i>Toxicology and Applied Pharmacology</i> , 2018, 360, 45-57.	1.3	29
15	A new BEACON of hope for the treatment of inflammation? The endogenous metabolite itaconate as an alternative activator of the KEAP1-Nrf2 system. <i>Kidney International</i> , 2018, 94, 646-649.	2.6	10
16	The Human SLC1A5 (ASCT2) Amino Acid Transporter: From Function to Structure and Role in Cell Biology. <i>Frontiers in Cell and Developmental Biology</i> , 2018, 6, 96.	1.8	176
17	Modulating Iron for Metabolic Support of TB Host Defense. <i>Frontiers in Immunology</i> , 2018, 9, 2296.	2.2	35
18	A Sugar Rush for Innate Immunity. <i>Cell Host and Microbe</i> , 2018, 24, 461-463.	5.1	5

#	ARTICLE	IF	CITATIONS
19	Metabolomics approach used for understanding temperature-related pectinase activity in <i>Bacillus licheniformis</i> DY2. <i>FEMS Microbiology Letters</i> , 2018, 365, .	0.7	5
20	RPA1 binding to NRF2 switches ARE-dependent transcriptional activation to ARE-NREâ€“dependent repression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10352-E10361.	3.3	39
21	Nrf2 negatively regulates STING indicating a link between antiviral sensing and metabolic reprogramming. <i>Nature Communications</i> , 2018, 9, 3506.	5.8	192
22	C151 in KEAP1 is the main cysteine sensor for the cyanoenone class of NRF2 activators, irrespective of molecular size or shape. <i>Scientific Reports</i> , 2018, 8, 8037.	1.6	58
23	Environmental Signals Influencing Myeloid Cell Metabolism and Function in Diabetes. <i>Trends in Endocrinology and Metabolism</i> , 2018, 29, 468-480.	3.1	16
24	Dimethyl fumarate: targeting glycolysis to treat MS. <i>Cell Research</i> , 2018, 28, 613-615.	5.7	22
25	New Insights into BehÃ“setâ€™s Syndrome Metabolic Reprogramming: Citrate Pathway Dysregulation. <i>Mediators of Inflammation</i> , 2018, 2018, 1-8.	1.4	12
26	Redox Biology of Respiratory Viral Infections. <i>Viruses</i> , 2018, 10, 392.	1.5	290
27	Newly made mitochondrial DNA drives inflammation. <i>Nature</i> , 2018, 560, 176-177.	13.7	17
28	HIV-associated cardiovascular disease: importance of platelet activation and cardiac fibrosis in the setting of specific antiretroviral therapies. <i>Open Heart</i> , 2018, 5, e000823.	0.9	29
29	Advancements in Host-Based Interventions for Influenza Treatment. <i>Frontiers in Immunology</i> , 2018, 9, 1547.	2.2	26
30	PPARÎ³ is a nexus controlling alternative activation of macrophages via glutamine metabolism. <i>Genes and Development</i> , 2018, 32, 1035-1044.	2.7	84
31	How Mitochondrial Metabolism Contributes to Macrophage Phenotype and Functions. <i>Journal of Molecular Biology</i> , 2018, 430, 3906-3921.	2.0	41
32	Succinate induces synovial angiogenesis in rheumatoid arthritis through metabolic remodeling and HIF-1Î±/VEGF axis. <i>Free Radical Biology and Medicine</i> , 2018, 126, 1-14.	1.3	85
33	Redox Signaling by Reactive Electrophiles and Oxidants. <i>Chemical Reviews</i> , 2018, 118, 8798-8888.	23.0	232
34	Targeting T Cell Metabolism for Improvement of Cancer Immunotherapy. <i>Frontiers in Oncology</i> , 2018, 8, 237.	1.3	123
35	Resolution of chronic inflammatory disease: universal and tissue-specific concepts. <i>Nature Communications</i> , 2018, 9, 3261.	5.8	272
36	Microenvironmental regulation of cancer cell metabolism: implications for experimental design and translational studies. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	1.2	96

#	ARTICLE	IF	CITATIONS
37	Krebs Cycle Reimagined: The Emerging Roles of Succinate and Itaconate as Signal Transducers. <i>Cell</i> , 2018, 174, 780-784.	13.5	237
38	Targeting Mitochondrial Metabolism in Neuroinflammation: Towards a Therapy for Progressive Multiple Sclerosis. <i>Trends in Molecular Medicine</i> , 2018, 24, 838-855.	3.5	59
39	Circadian clock protein BMAL1 regulates IL-1 β in macrophages via NRF2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8460-E8468.	3.3	230
40	New Flavors in Immunomodulation. <i>Cell</i> , 2018, 173, 1553-1555.	13.5	3
41	Nrf2: Molecular and epigenetic regulation during aging. <i>Ageing Research Reviews</i> , 2018, 47, 31-40.	5.0	127
42	Mitochondrial mechanisms and therapeutics in ischaemia reperfusion injury. <i>Pediatric Nephrology</i> , 2019, 34, 1167-1174.	0.9	56
43	Long-term reprogramming of the innate immune system. <i>Journal of Leukocyte Biology</i> , 2019, 105, 329-338.	1.5	120
44	Decoding inflammation, its causes, genomic responses, and emerging countermeasures. <i>Scandinavian Journal of Immunology</i> , 2019, 90, e12812.	1.3	39
45	Activators and Inhibitors of NRF2: A Review of Their Potential for Clinical Development. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-20.	1.9	390
46	The Oncogenic Action of NRF2 Depends on De-glycation by Fructosamine-3-Kinase. <i>Cell</i> , 2019, 178, 807-819.e21.	13.5	96
47	Leptin signaling impairs macrophage defenses against <i>Salmonella Typhimurium</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16551-16560.	3.3	17
48	Metabolic regulation of pathogenic autoimmunity: therapeutic targeting. <i>Current Opinion in Immunology</i> , 2019, 61, 10-16.	2.4	24
49	<i>N</i> ⁶ -methyladenosine RNA modification-mediated cellular metabolism rewiring inhibits viral replication. <i>Science</i> , 2019, 365, 1171-1176.	6.0	141
50	Immunometabolism: an overview and therapeutic prospects in autoimmune diseases. <i>Immunotherapy</i> , 2019, 11, 813-829.	1.0	53
51	Protective effects of dimethyl itaconate in mice acute cardiotoxicity induced by doxorubicin. <i>Biochemical and Biophysical Research Communications</i> , 2019, 517, 538-544.	1.0	22
52	Targeting metabolism to regulate immune responses in autoimmunity and cancer. <i>Nature Reviews Drug Discovery</i> , 2019, 18, 669-688.	21.5	176
53	Central metabolic interactions of immune cells and microbes: prospects for defeating infections. <i>EMBO Reports</i> , 2019, 20, e47995.	2.0	47
54	Sweetly profiling the cysteinome. <i>Nature Chemical Biology</i> , 2019, 15, 935-936.	3.9	3

#	ARTICLE	IF	CITATIONS
55	Rerouting metabolism to activate macrophages. <i>Nature Immunology</i> , 2019, 20, 1097-1099.	7.0	13
56	Bioenergetics and translational metabolism: implications for genetics, physiology and precision medicine. <i>Biological Chemistry</i> , 2019, 401, 3-29.	1.2	41
57	<sc>GSTZ</sc> 1 Deficiency Activates <sc>NRF</sc> 2/ <sc>IGF</sc> 1R Axis in <sc>HCC</sc> via Accumulation of Oncometabolite Succinylacetone. <i>EMBO Journal</i> , 2019, 38, e101964.	3.5	37
58	Two-stage metabolic remodelling in macrophages in response to lipopolysaccharide and interferon- γ stimulation. <i>Nature Metabolism</i> , 2019, 1, 731-742.	5.1	90
59	An essential bifunctional enzyme in <i>Mycobacterium tuberculosis</i> for itaconate dissimilation and leucine catabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15907-15913.	3.3	42
60	Metabolic Regulation of Redox Balance in Cancer. <i>Cancers</i> , 2019, 11, 955.	1.7	80
61	Acute Iron Deprivation Reprograms Human Macrophage Metabolism and Reduces Inflammation In Vivo. <i>Cell Reports</i> , 2019, 28, 498-511.e5.	2.9	75
62	S-glycosylation-based cysteine profiling reveals regulation of glycolysis by itaconate. <i>Nature Chemical Biology</i> , 2019, 15, 983-991.	3.9	179
63	The inert meets the living: The expanding view of metabolic alterations during viral pathogenesis. <i>PLoS Pathogens</i> , 2019, 15, e1007830.	2.1	8
64	A high-throughput screening method based on the Mizoroki-Heck reaction for isolating itaconic acid-producing fungi from soils. <i>Heliyon</i> , 2019, 5, e02048.	1.4	8
65	The influence of microenvironment on tumor immunotherapy. <i>FEBS Journal</i> , 2019, 286, 4160-4175.	2.2	64
66	Nitric Oxide Modulates Metabolic Remodeling in Inflammatory Macrophages through TCA Cycle Regulation and Itaconate Accumulation. <i>Cell Reports</i> , 2019, 28, 218-230.e7.	2.9	149
67	A Breakdown in Metabolic Reprogramming Causes Microglia Dysfunction in Alzheimer's Disease. <i>Cell Metabolism</i> , 2019, 30, 493-507.e6.	7.2	374
68	CFTR-PTEN-dependent mitochondrial metabolic dysfunction promotes <i>Pseudomonas aeruginosa</i> airway infection. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	65
69	The Metabolic Signature of Macrophage Responses. <i>Frontiers in Immunology</i> , 2019, 10, 1462.	2.2	1,083
70	Flavonoid-mediated immunomodulation of human macrophages involves key metabolites and metabolic pathways. <i>Scientific Reports</i> , 2019, 9, 14906.	1.6	36
71	Differential and overlapping targets of the transcriptional regulators NRF1, NRF2, and NRF3 in human cells. <i>Journal of Biological Chemistry</i> , 2019, 294, 18131-18149.	1.6	49
72	Metabolomic Profiling of the Immune Stimulatory Effect of Eicosenoids on PMA-Differentiated THP-1 Cells. <i>Vaccines</i> , 2019, 7, 142.	2.1	8

#	ARTICLE	IF	CITATIONS
73	Crosstalk between Nrf2 signaling and mitochondrial function in Parkinson's disease. <i>Molecular and Cellular Neurosciences</i> , 2019, 101, 103413.	1.0	46
74	4-Octyl itaconate inhibits aerobic glycolysis by targeting GAPDH to exert anti-inflammatory effects. <i>Nature Communications</i> , 2019, 10, 5091.	5.8	217
75	A likely protective effect of dimethyl itaconate on cerebral ischemia/reperfusion injury. <i>International Immunopharmacology</i> , 2019, 77, 105924.	1.7	16
76	Immunobiology and application of toll-like receptor 4 agonists to augment host resistance to infection. <i>Pharmacological Research</i> , 2019, 150, 104502.	3.1	34
77	Itaconyl-CoA forms a stable biradical in methylmalonyl-CoA mutase and derails its activity and repair. <i>Science</i> , 2019, 366, 589-593.	6.0	71
78	Quantitative 1H NMR Metabolomics Reveal Distinct Metabolic Adaptations in Human Macrophages Following Differential Activation. <i>Metabolites</i> , 2019, 9, 248.	1.3	33
79	Effect of host genotype and <i>Eimeria acervulina</i> infection on the metabolome of meat-type chickens. <i>PLoS ONE</i> , 2019, 14, e0223417.	1.1	15
80	Nrf2 Negatively Regulates Type I Interferon Responses and Increases Susceptibility to Herpes Genital Infection in Mice. <i>Frontiers in Immunology</i> , 2019, 10, 2101.	2.2	26
81	Octyl itaconate inhibits osteoclastogenesis by suppressing Hrd1 and activating Nrf2 signaling. <i>FASEB Journal</i> , 2019, 33, 12929-12940.	0.2	41
82	The coenzyme A biosynthetic pathway: A new tool for prodrug bioactivation. <i>Archives of Biochemistry and Biophysics</i> , 2019, 672, 108069.	1.4	6
83	Xanthohumol inhibits PRRSV proliferation and alleviates oxidative stress induced by PRRSV via the Nrf2-HMOX1 axis. <i>Veterinary Research</i> , 2019, 50, 61.	1.1	34
84	A metabolomic investigation into the temperature-dependent virulence of <i>Pseudomonas plecoglossicida</i> from large yellow croaker (<i>Pseudosciaena crocea</i>). <i>Journal of Fish Diseases</i> , 2019, 42, 431-446.	0.9	66
85	Malonylation of GAPDH is an inflammatory signal in macrophages. <i>Nature Communications</i> , 2019, 10, 338.	5.8	129
86	Mechanisms of NRF2 activation to mediate fetal hemoglobin induction and protection against oxidative stress in sickle cell disease. <i>Experimental Biology and Medicine</i> , 2019, 244, 171-182.	1.1	13
87	Itaconate: the poster child of metabolic reprogramming in macrophage function. <i>Nature Reviews Immunology</i> , 2019, 19, 273-281.	10.6	359
88	Immunometabolism at the interface between macrophages and pathogens. <i>Nature Reviews Immunology</i> , 2019, 19, 291-304.	10.6	285
89	Polarization of Rheumatoid Macrophages by TNF Targeting Through an IL-10/STAT3 Mechanism. <i>Frontiers in Immunology</i> , 2019, 10, 3.	2.2	121
90	Mitochondria as central hub of the immune system. <i>Redox Biology</i> , 2019, 26, 101255.	3.9	187

#	ARTICLE	IF	CITATIONS
91	Targeted metabolomics to investigate antimicrobial activity of itaconic acid in marine molluscs. <i>Metabolomics</i> , 2019, 15, 97.	1.4	31
92	Immunometabolism and atherosclerosis: perspectives and clinical significance: a position paper from the Working Group on Atherosclerosis and Vascular Biology of the European Society of Cardiology. <i>Cardiovascular Research</i> , 2019, 115, 1385-1392.	1.8	58
93	The Immunomodulatory Potential of the Metabolite Itaconate. <i>Trends in Immunology</i> , 2019, 40, 687-698.	2.9	138
94	Opportunities and challenges for the development of covalent chemical immunomodulators. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 3421-3439.	1.4	15
95	Biomass-Derived Production of Itaconic Acid as a Building Block in Specialty Polymers. <i>Polymers</i> , 2019, 11, 1035.	2.0	88
96	Redox signaling in aging kidney and opportunity for therapeutic intervention through natural products. <i>Free Radical Biology and Medicine</i> , 2019, 141, 141-149.	1.3	29
97	Irisin pretreatment ameliorates intestinal ischemia/reperfusion injury in mice through activation of the Nrf2 pathway. <i>International Immunopharmacology</i> , 2019, 73, 225-235.	1.7	34
98	Nrf2 controls iron homeostasis in haemochromatosis and thalassaemia via Bmp6 and hepcidin. <i>Nature Metabolism</i> , 2019, 1, 519-531.	5.1	88
99	Dimethyl itaconate protects against lipopolysaccharide-induced mastitis in mice by activating MAPKs and Nrf2 and inhibiting NF- κ B signaling pathways. <i>Microbial Pathogenesis</i> , 2019, 133, 103541.	1.3	40
100	Genome-Wide CRISPR Screen Reveals Autophagy Disruption as the Convergence Mechanism That Regulates the NRF2 Transcription Factor. <i>Molecular and Cellular Biology</i> , 2019, 39, .	1.1	15
101	Letâ€™s Enter the Wonderful World of Immunometabolites. <i>Trends in Endocrinology and Metabolism</i> , 2019, 30, 329-331.	3.1	8
102	A STING to inflammation and autoimmunity. <i>Journal of Leukocyte Biology</i> , 2019, 106, 171-185.	1.5	75
103	Mito-Nuclear Communication by Mitochondrial Metabolites and Its Regulation by B-Vitamins. <i>Frontiers in Physiology</i> , 2019, 10, 78.	1.3	38
104	Spatiotemporal Changes of the Phagosomal Proteome in Dendritic Cells in Response to LPS Stimulation*. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 909a-922.	2.5	19
105	Navigating metabolic pathways to enhance antitumour immunity and immunotherapy. <i>Nature Reviews Clinical Oncology</i> , 2019, 16, 425-441.	12.5	452
106	Epigenetic regulation of the innate immune response to infection. <i>Nature Reviews Immunology</i> , 2019, 19, 417-432.	10.6	256
107	Inflammatory macrophage dependence on NAD ⁺ salvage is a consequence of reactive oxygen speciesâ€™ mediated DNA damage. <i>Nature Immunology</i> , 2019, 20, 420-432.	7.0	169
108	Multi-Omics Strategies Uncover Hostâ€™Pathogen Interactions. <i>ACS Infectious Diseases</i> , 2019, 5, 493-505.	1.8	39

#	ARTICLE	IF	CITATIONS
109	A gossypol biosynthetic intermediate disturbs plant defence response. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180319.	1.8	13
110	PEGylation-Dependent Metabolic Rewiring of Macrophages with Silk Fibroin Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14515-14525.	4.0	38
111	Microglia immunometabolism: From metabolic disorders to single cell metabolism. <i>Seminars in Cell and Developmental Biology</i> , 2019, 94, 129-137.	2.3	29
112	Tricarboxylic Acid Cycle Activity and Remodeling of Glycerophosphocholine Lipids Support Cytokine Induction in Response to Fungal Patterns. <i>Cell Reports</i> , 2019, 27, 525-536.e4.	2.9	31
113	Regulation of leukocyte function by citric acid cycle intermediates. <i>Journal of Leukocyte Biology</i> , 2019, 106, 105-117.	1.5	27
114	Tricarboxylic acid cycle metabolites in the control of macrophage activation and effector phenotypes. <i>Journal of Leukocyte Biology</i> , 2019, 106, 359-367.	1.5	39
115	Immune cell metabolism in autoimmunity. <i>Clinical and Experimental Immunology</i> , 2019, 197, 181-192.	1.1	25
116	O-GlcNAc Transferase Suppresses Inflammation and Necroptosis by Targeting Receptor-Interacting Serine/Threonine-Protein Kinase 3. <i>Immunity</i> , 2019, 50, 576-590.e6.	6.6	111
117	Measuring the Interaction of Transcription Factor Nrf2 with Its Negative Regulator Keap1 in Single Live Cells by an Improved FRET/FLIM Analysis. <i>Chemical Research in Toxicology</i> , 2019, 32, 500-512.	1.7	8
118	Identification of bioactive metabolites using activity metabolomics. <i>Nature Reviews Molecular Cell Biology</i> , 2019, 20, 353-367.	16.1	602
119	Macrophage metabolism: a wound-healing perspective. <i>Immunology and Cell Biology</i> , 2019, 97, 268-278.	1.0	27
120	NRF2 Activation in Cancer: From DNA to Protein. <i>Cancer Research</i> , 2019, 79, 889-898.	0.4	140
121	Serine Metabolism Supports Macrophage IL-1 β Production. <i>Cell Metabolism</i> , 2019, 29, 1003-1011.e4.	7.2	192
122	Crystal structure of <i>cis</i> -aconitate decarboxylase reveals the impact of naturally occurring human mutations on itaconate synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20644-20654.	3.3	47
123	A mechanistic integrative computational model of macrophage polarization: Implications in human pathophysiology. <i>PLoS Computational Biology</i> , 2019, 15, e1007468.	1.5	39
124	Oncometabolite modification of Keap1 links GSTZ1 deficiency with cancer. <i>Genes and Diseases</i> , 2019, 6, 333-334.	1.5	3
125	IRG1 and Inducible Nitric Oxide Synthase Act Redundantly with Other Interferon-Gamma-Induced Factors To Restrict Intracellular Replication of <i>Legionella pneumophila</i> . <i>MBio</i> , 2019, 10, .	1.8	27
126	Metabolic Control of Astrocyte Pathogenic Activity via cPLA2-MAVS. <i>Cell</i> , 2019, 179, 1483-1498.e22.	13.5	120

#	ARTICLE	IF	CITATIONS
127	Analysis of the Progeny of Sibling Matings Reveals Regulatory Variation Impacting the Transcriptome of Immune Cells in Commercial Chickens. <i>Frontiers in Genetics</i> , 2019, 10, 1032.	1.1	18
128	Induction of innate immune memory: the role of cellular metabolism. <i>Current Opinion in Immunology</i> , 2019, 56, 10-16.	2.4	109
129	Cancer-associated acinar-to-ductal metaplasia within the invasive front of pancreatic cancer contributes to local invasion. <i>Cancer Letters</i> , 2019, 444, 70-81.	3.2	25
130	Pseudoginsenoside-F11 attenuates cognitive impairment by ameliorating oxidative stress and neuroinflammation in d-galactose-treated mice. <i>International Immunopharmacology</i> , 2019, 67, 78-86.	1.7	32
131	Metabolism as a guiding force for immunity. <i>Nature Cell Biology</i> , 2019, 21, 85-93.	4.6	214
132	Therapeutic targeting of the NRF2 and KEAP1 partnership in chronic diseases. <i>Nature Reviews Drug Discovery</i> , 2019, 18, 295-317.	21.5	849
133	Activation of Keap1-Nrf2 signaling by 4-octyl itaconate protects human umbilical vein endothelial cells from high glucose. <i>Biochemical and Biophysical Research Communications</i> , 2019, 508, 921-927.	1.0	38
134	Microglia metabolism in health and disease. <i>Neurochemistry International</i> , 2019, 130, 104331.	1.9	56
135	Involvement of Nrf2 in myocardial ischemia and reperfusion injury. <i>International Journal of Biological Macromolecules</i> , 2019, 125, 496-502.	3.6	160
136	Coupling Krebs cycle metabolites to signalling in immunity and cancer. <i>Nature Metabolism</i> , 2019, 1, 16-33.	5.1	260
137	The Nucleotide Sensor ZBP1 and Kinase RIPK3 Induce the Enzyme IRG1 to Promote an Antiviral Metabolic State in Neurons. <i>Immunity</i> , 2019, 50, 64-76.e4.	6.6	214
138	Advancing the therapeutic potential of the IL-1 family in inflammatory diseases – Meeting report. <i>European Journal of Immunology</i> , 2019, 49, 8-10.	1.6	9
139	Frontline Science: Monocytes sequentially rewire metabolism and bioenergetics during an acute inflammatory response. <i>Journal of Leukocyte Biology</i> , 2019, 105, 215-228.	1.5	42
140	Deciphering the metabolic secret of longevity through the analysis of metabolic response to stress on long-lived species. <i>Medical Hypotheses</i> , 2019, 122, 62-67.	0.8	3
141	TMEM126B deficiency reduces mitochondrial SDH oxidation by LPS, attenuating HIF-1 α stabilization and IL-1 β expression. <i>Redox Biology</i> , 2019, 20, 204-216.	3.9	41
142	Proteomics and Beyond: Cell Decision-Making Shaped by Reactive Electrophiles. <i>Trends in Biochemical Sciences</i> , 2019, 44, 75-89.	3.7	33
143	Immunometabolic Crosstalk: An Ancestral Principle of Trained Immunity?. <i>Trends in Immunology</i> , 2019, 40, 1-11.	2.9	92
144	The Itaconate Pathway Is a Central Regulatory Node Linking Innate Immune Tolerance and Trained Immunity. <i>Cell Metabolism</i> , 2019, 29, 211-220.e5.	7.2	232

#	ARTICLE	IF	CITATIONS
145	Reprogramming of mitochondrial metabolism by innate immunity. <i>Current Opinion in Immunology</i> , 2019, 56, 17-23.	2.4	26
146	Mitochondrial metabolism: Inducer or therapeutic target in tumor immune-resistance?. <i>Seminars in Cell and Developmental Biology</i> , 2020, 98, 80-89.	2.3	14
147	3-Hydroxyanthralinic acid metabolism controls the hepatic SREBP/lipoprotein axis, inhibits inflammasome activation in macrophages, and decreases atherosclerosis in <i>Ldlr</i> ^{-/-} mice. <i>Cardiovascular Research</i> , 2020, 116, 1948-1957.	1.8	29
148	Electroacupuncture Attenuates Limb Ischemia-Reperfusion-Induced Lung Injury Via p38 Mitogen-Activated Protein Kinase-Nuclear Factor Erythroid-2-Related Factor-2/Heme Oxygenase Pathway. <i>Journal of Surgical Research</i> , 2020, 246, 170-181.	0.8	11
149	Inflammation-associated genomic instability in cancer. <i>Genome Instability & Disease</i> , 2020, 1, 1-9.	0.5	11
150	Immunity, Hypoxia, and Metabolism—the MÃ©nage Ã Trois of Cancer: Implications for Immunotherapy. <i>Physiological Reviews</i> , 2020, 100, 1-102.	13.1	190
151	Metabolic specialization in itaconic acid production: a tale of two fungi. <i>Current Opinion in Biotechnology</i> , 2020, 62, 153-159.	3.3	61
152	Reasonably activating Nrf2: A long-term, effective and controllable strategy for neurodegenerative diseases. <i>European Journal of Medicinal Chemistry</i> , 2020, 185, 111862.	2.6	27
153	Emerging evidence for crosstalk between Nrf2 and mitochondria in physiological homeostasis and in heart disease. <i>Archives of Pharmacal Research</i> , 2020, 43, 286-296.	2.7	34
154	Metabolism in the Tumor Microenvironment. <i>Annual Review of Cancer Biology</i> , 2020, 4, 17-40.	2.3	61
155	Metabolic reprogramming in tumors: Contributions of the tumor microenvironment. <i>Genes and Diseases</i> , 2020, 7, 185-198.	1.5	45
156	The Tricarboxylic Acid Cycle at the Crossroad Between Cancer and Immunity. <i>Antioxidants and Redox Signaling</i> , 2020, 32, 834-852.	2.5	40
157	Mitochondrial TCA cycle metabolites control physiology and disease. <i>Nature Communications</i> , 2020, 11, 102.	5.8	1,213
158	Itaconate modulates tricarboxylic acid and redox metabolism to mitigate reperfusion injury. <i>Molecular Metabolism</i> , 2020, 32, 122-135.	3.0	83
159	Stimulating pyruvate dehydrogenase complex reduces itaconate levels and enhances TCA cycle anabolic bioenergetics in acutely inflamed monocytes. <i>Journal of Leukocyte Biology</i> , 2020, 107, 467-484.	1.5	27
160	mTOR-mediated metabolic reprogramming shapes distinct microglia functions in response to lipopolysaccharide and ATP. <i>Glia</i> , 2020, 68, 1031-1045.	2.5	101
161	Nuclear factor erythroid 2-related factor 2 as a treatment target of kidney diseases. <i>Current Opinion in Nephrology and Hypertension</i> , 2020, 29, 128-135.	1.0	33
162	Revisiting prochirality. <i>Biochimie</i> , 2020, 170, 65-72.	1.3	1

#	ARTICLE	IF	CITATIONS
163	Macrophage inflammatory and metabolic responses to graphene-based nanomaterials differing in size and functionalization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 186, 110709.	2.5	30
164	Aconitase 2 inhibits the proliferation of MCF-7 cells promoting mitochondrial oxidative metabolism and ROS/FoxO1-mediated autophagic response. <i>British Journal of Cancer</i> , 2020, 122, 182-193.	2.9	41
165	The promise and peril of targeting cell metabolism for cancer therapy. <i>Cancer Immunology, Immunotherapy</i> , 2020, 69, 255-261.	2.0	27
166	The Keap1-Nrf2 pathway: From mechanism to medical applications. , 2020, , 125-147.		1
167	How exercise induces oxidative eustress. , 2020, , 447-462.		3
168	Metabolic Reprogramming in Mitochondria of Myeloid Cells. <i>Cells</i> , 2020, 9, 5.	1.8	56
169	Dengue Virus Targets Nrf2 for NS2B3-Mediated Degradation Leading to Enhanced Oxidative Stress and Viral Replication. <i>Journal of Virology</i> , 2020, 94, .	1.5	32
170	Metabolic needs of brain-infiltrating leukocytes and microglia in multiple sclerosis. <i>Journal of Neurochemistry</i> , 2021, 158, 14-24.	2.1	8
171	Profiling of post-translational modifications by chemical and computational proteomics. <i>Chemical Communications</i> , 2020, 56, 13506-13519.	2.2	15
172	Dengue virus infection and Nrf2 regulation of oxidative stress. <i>Current Opinion in Virology</i> , 2020, 43, 35-40.	2.6	17
173	Dissecting the Crosstalk between NRF2 Signaling and Metabolic Processes in Cancer. <i>Cancers</i> , 2020, 12, 3023.	1.7	43
174	Landscape of electrophilic and inflammatory stress-mediated gene regulation in human lymphoblastoid cell lines. <i>Free Radical Biology and Medicine</i> , 2020, 161, 71-83.	1.3	4
175	Covalent inhibitors of GAPDH: From unspecific warheads to selective compounds. <i>European Journal of Medicinal Chemistry</i> , 2020, 207, 112740.	2.6	15
176	Immunometabolism pathways as the basis for innovative anti-viral strategies (INITIATE): A Marie Skłodowska-Curie innovative training network. <i>Virus Research</i> , 2020, 287, 198094.	1.1	2
177	Environmental pollutants and the immune response. <i>Nature Immunology</i> , 2020, 21, 1486-1495.	7.0	143
178	Direct inhibition of Keap1-Nrf2 Protein-Protein interaction as a potential therapeutic strategy for Alzheimer's disease. <i>Bioorganic Chemistry</i> , 2020, 103, 104172.	2.0	36
179	SARS-CoV2-mediated suppression of NRF2-signaling reveals potent antiviral and anti-inflammatory activity of 4-octyl-itaconate and dimethyl fumarate. <i>Nature Communications</i> , 2020, 11, 4938.	5.8	272
180	Cyclopentenone Prostaglandins and Structurally Related Oxidized Lipid Species Instigate and Share Distinct Pro- and Anti-inflammatory Pathways. <i>Cell Reports</i> , 2020, 30, 4399-4417.e7.	2.9	19

#	ARTICLE	IF	CITATIONS
181	Thymopentin improves the survival of septic mice by promoting the production of 15- Δ^8 -leoxyprostaglandin J2 and activating the PPAR β signaling pathway. <i>FASEB Journal</i> , 2020, 34, 11772-11785.	0.2	3
182	Enzymatic reaction mechanism of cis-aconitate decarboxylase based on the crystal structure of IRG1 from <i>Bacillus subtilis</i> . <i>Scientific Reports</i> , 2020, 10, 11305.	1.6	10
183	Alternative Pathways of IL-1 Activation, and Its Role in Health and Disease. <i>Frontiers in Immunology</i> , 2020, 11, 613170.	2.2	83
184	Nuclear factor E2 related factor (NRF2) inhibits mast cell-mediated allergic inflammation via SIRT4-mediated mitochondrial metabolism. <i>Annals of Palliative Medicine</i> , 2020, 9, 3839-3847.	0.5	9
185	An Overview of Nrf2 Signaling Pathway and Its Role in Inflammation. <i>Molecules</i> , 2020, 25, 5474.	1.7	573
186	Mitochondrial Ca ²⁺ Signaling Is an Electrometabolic Switch to Fuel Phagosome Killing. <i>Cell Reports</i> , 2020, 33, 108411.	2.9	16
187	Early Career Members at the ERS Lung Science Conference 2020: metabolic alterations in lung ageing and disease. <i>Breathe</i> , 2020, 16, 200063.	0.6	1
188	Electrophile Modulation of Inflammation: A Two-Hit Approach. <i>Metabolites</i> , 2020, 10, 453.	1.3	4
189	Decreased Expression of the Host Long-Noncoding RNA-GM Facilitates Viral Escape by Inhibiting the Kinase activity TBK1 via S-glutathionylation. <i>Immunity</i> , 2020, 53, 1168-1181.e7.	6.6	41
190	Exploring the Use of Dimethyl Fumarate as Microglia Modulator for Neurodegenerative Diseases Treatment. <i>Antioxidants</i> , 2020, 9, 700.	2.2	30
191	The Immunomodulatory Metabolite Itaconate Modifies NLRP3 and Inhibits Inflammasome Activation. <i>Cell Metabolism</i> , 2020, 32, 468-478.e7.	7.2	283
192	Selective Delivery of Dicarboxylates to Mitochondria by Conjugation to a Lipophilic Cation via a Cleavable Linker. <i>Molecular Pharmaceutics</i> , 2020, 17, 3526-3540.	2.3	14
193	Itaconate is an effector of a Rab GTPase cell-autonomous host defense pathway against <i>Salmonella</i> . <i>Science</i> , 2020, 369, 450-455.	6.0	87
194	Could the Induction of Trained Immunity by β -Glucan Serve as a Defense Against COVID-19?. <i>Frontiers in Immunology</i> , 2020, 11, 1782.	2.2	64
195	Microglia: Agents of the CNS Pro-Inflammatory Response. <i>Cells</i> , 2020, 9, 1717.	1.8	174
196	Can Activation of NRF2 Be a Strategy against COVID-19?. <i>Trends in Pharmacological Sciences</i> , 2020, 41, 598-610.	4.0	161
197	The <i>Salmonella</i> LysR Family Regulator RipR Activates the SPI-13-Encoded Itaconate Degradation Cluster. <i>Infection and Immunity</i> , 2020, 88, .	1.0	18
198	Itaconic Acid Increases the Efficacy of Tobramycin against <i>Pseudomonas aeruginosa</i> Biofilms. <i>Pharmaceutics</i> , 2020, 12, 691.	2.0	6

#	ARTICLE	IF	CITATIONS
199	Itaconate: A Metabolite Regulates Inflammation Response and Oxidative Stress. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-11.	1.9	31
200	Species-Specificity of Transcriptional Regulation and the Response to Lipopolysaccharide in Mammalian Macrophages. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 661.	1.8	29
201	Flavonoids Activation of the Transcription Factor Nrf2 as a Hypothesis Approach for the Prevention and Modulation of SARS-CoV-2 Infection Severity. <i>Antioxidants</i> , 2020, 9, 659.	2.2	76
202	CDDO-imidazolidine Targets Multiple Amino Acid Residues on the Nrf2 Adaptor, Keap1. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 9965-9976.	2.9	28
203	The NLRP3 Inflammasome: Metabolic Regulation and Contribution to Inflammation. <i>Cells</i> , 2020, 9, 1808.	1.8	96
204	Electrophilic Nrf2 activators and itaconate inhibit inflammation at low dose and promote IL-1 β production and inflammatory apoptosis at high dose. <i>Redox Biology</i> , 2020, 36, 101647.	3.9	37
205	The Role of Astrocytes in CNS Inflammation. <i>Trends in Immunology</i> , 2020, 41, 805-819.	2.9	266
206	Reciprocal interference between the NRF2 and LPS signaling pathways on the immune-metabolic phenotype of peritoneal macrophages. <i>Pharmacology Research and Perspectives</i> , 2020, 8, e00638.	1.1	8
207	Perspectives on the Clinical Development of NRF2-Targeting Drugs. <i>Handbook of Experimental Pharmacology</i> , 2020, 264, 93-141.	0.9	14
208	Immune-responsive gene 1 (IRG1) and dimethyl itaconate are involved in the mussel immune response. <i>Fish and Shellfish Immunology</i> , 2020, 106, 645-655.	1.6	11
209	NRF2 and Hypoxia-Inducible Factors: Key Players in the Redox Control of Systemic Iron Homeostasis. <i>Antioxidants and Redox Signaling</i> , 2021, 35, 433-452.	2.5	43
210	KEAP1, a cysteine-based sensor and a drug target for the prevention and treatment of chronic disease. <i>Open Biology</i> , 2020, 10, 200105.	1.5	68
211	Itaconate controls the severity of pulmonary fibrosis. <i>Science Immunology</i> , 2020, 5, .	5.6	73
212	An Army Marches on Its Stomach: Metabolic Intermediates as Antimicrobial Mediators in <i>Mycobacterium tuberculosis</i> Infection. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 446.	1.8	5
213	The myeloid type I interferon response to myocardial infarction begins in bone marrow and is regulated by Nrf2-activated macrophages. <i>Science Immunology</i> , 2020, 5, .	5.6	43
214	The Role of HIF in Immunity and Inflammation. <i>Cell Metabolism</i> , 2020, 32, 524-536.	7.2	304
215	Four-octyl itaconate activates Nrf2 cascade to protect osteoblasts from hydrogen peroxide-induced oxidative injury. <i>Cell Death and Disease</i> , 2020, 11, 772.	2.7	38
216	The anti-inflammatory drug dimethyl itaconate protects against colitis-associated colorectal cancer. <i>Journal of Molecular Medicine</i> , 2020, 98, 1457-1466.	1.7	21

#	ARTICLE	IF	CITATIONS
217	Itaconic acid derivatives: structure, function, biosynthesis, and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 9041-9051.	1.7	27
218	Systemic Immunometabolism: Challenges and Opportunities. <i>Immunity</i> , 2020, 53, 496-509.	6.6	73
219	Metabolic reprogramming as a key regulator in the pathogenesis of rheumatoid arthritis. <i>Inflammation Research</i> , 2020, 69, 1087-1101.	1.6	24
220	Therapeutic potential of tricarboxylic acid cycle metabolite itaconate in cardiovascular diseases. <i>EBioMedicine</i> , 2020, 59, 102938.	2.7	10
221	Succination inactivates gasdermin D and blocks pyroptosis. <i>Science</i> , 2020, 369, 1633-1637.	6.0	341
222	Nrf2â€™A Molecular Target for Sepsis Patients in Critical Care. <i>Biomolecules</i> , 2020, 10, 1688.	1.8	13
223	A novel TNFR2 agonist antibody expands highly potent regulatory T cells. <i>Science Signaling</i> , 2020, 13, .	1.6	34
224	Airway immunometabolites fuel <i>Pseudomonas aeruginosa</i> infection. <i>Respiratory Research</i> , 2020, 21, 326.	1.4	13
225	Nrf2-interacting nutrients and COVID-19: time for research to develop adaptation strategies. <i>Clinical and Translational Allergy</i> , 2020, 10, 58.	1.4	56
226	Metabolic reprogramming of glycolysis and glutamine metabolism are key events in myofibroblast transition in systemic sclerosis pathogenesis. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 14026-14038.	1.6	39
227	BCAT1 affects mitochondrial metabolism independently of leucine transamination in activated human macrophages. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	24
228	The Role of Metabolic Enzymes in the Regulation of Inflammation. <i>Metabolites</i> , 2020, 10, 426.	1.3	11
229	Nitric Oxide in Macrophage Immunometabolism: Hiding in Plain Sight. <i>Metabolites</i> , 2020, 10, 429.	1.3	90
230	Solute Carrier Family 37 Member 2 (SLC37A2) Negatively Regulates Murine Macrophage Inflammation by Controlling Glycolysis. <i>IScience</i> , 2020, 23, 101125.	1.9	12
231	Dysregulated signalling pathways in innate immune cells with cystic fibrosis mutations. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 4485-4503.	2.4	42
232	Target the Host, Kill the Bug; Targeting Host Respiratory Immunosuppressive Responses as a Novel Strategy to Improve Bacterial Clearance During Lung Infection. <i>Frontiers in Immunology</i> , 2020, 11, 767.	2.2	9
233	Tissue metabolic profiling shows that saccharopine accumulates during renal ischemic-reperfusion injury, while kynurenine and itaconate accumulate in renal allograft rejection. <i>Metabolomics</i> , 2020, 16, 65.	1.4	8
234	<i>SIRT5</i> impairs aggregation and activation of the signaling adaptor MAVS through catalyzing lysine desuccinylation. <i>EMBO Journal</i> , 2020, 39, e103285.	3.5	35

#	ARTICLE	IF	CITATIONS
235	Macrophage Metabolomics Reveals Differential Metabolic Responses to Subtoxic Levels of Silver Nanoparticles and Ionic Silver. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 1867-1876.	1.0	5
236	ERS International Congress, Madrid, 2019: highlights from the Basic and Translational Science Assembly. <i>ERJ Open Research</i> , 2020, 6, 00350-2019.	1.1	1
237	<i>Pseudomonas</i> Persists by Feeding off Itaconate. <i>Cell Metabolism</i> , 2020, 31, 1045-1047.	7.2	2
238	Development of ion pairing LC-MS/MS method for itaconate and cis-aconitate in cell extract and cell media. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1146, 122120.	1.2	7
239	Macrophage <i>GIT1</i> Contributes to Bone Regeneration by Regulating Inflammatory Responses in an <i>ERK</i> / <i>NRF2</i> -Dependent Way. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 2015-2031.	3.1	18
240	Changes in Plasma Itaconate Elevation in Early Rheumatoid Arthritis Patients Elucidates Disease Activity Associated Macrophage Activation. <i>Metabolites</i> , 2020, 10, 241.	1.3	28
241	Chemoproteomic Profiling of Itaconation by Bioorthogonal Probes in Inflammatory Macrophages. <i>Journal of the American Chemical Society</i> , 2020, 142, 10894-10898.	6.6	71
242	Resolving Metabolic Heterogeneity in Experimental Models of the Tumor Microenvironment from a Stable Isotope Resolved Metabolomics Perspective. <i>Metabolites</i> , 2020, 10, 249.	1.3	9
243	Toll-Like Receptors Induce Signal-Specific Reprogramming of the Macrophage Lipidome. <i>Cell Metabolism</i> , 2020, 32, 128-143.e5.	7.2	78
244	The Metabolic Basis of Immune Dysfunction Following Sepsis and Trauma. <i>Frontiers in Immunology</i> , 2020, 11, 1043.	2.2	63
245	ROS-associated immune response and metabolism: a mechanistic approach with implication of various diseases. <i>Archives of Toxicology</i> , 2020, 94, 2293-2317.	1.9	30
246	Metabolic and immunologic control of intestinal cell function by mTOR. <i>International Immunology</i> , 2020, 32, 455-465.	1.8	10
247	Interaction profiling methods to map protein and pathway targets of bioactive ligands. <i>Current Opinion in Chemical Biology</i> , 2020, 54, 76-84.	2.8	6
248	Pharmacological targets of metabolism in disease: Opportunities from macrophages. , 2020, 210, 107521.		45
249	Obesity and NRF2-mediated cytoprotection: Where is the missing link?. <i>Pharmacological Research</i> , 2020, 156, 104760.	3.1	68
250	The Pleiotropic Role of the KEAP1/NRF2 Pathway in Cancer. <i>Annual Review of Cancer Biology</i> , 2020, 4, 413-435.	2.3	45
251	Metabolic determinants of lupus pathogenesis. <i>Immunological Reviews</i> , 2020, 295, 167-186.	2.8	30
252	Carbohydrate and Amino Acid Metabolism as Hallmarks for Innate Immune Cell Activation and Function. <i>Cells</i> , 2020, 9, 562.	1.8	24

#	ARTICLE	IF	CITATIONS
253	Targeting immunometabolism as an anti-inflammatory strategy. <i>Cell Research</i> , 2020, 30, 300-314.	5.7	285
254	Defining trained immunity and its role in health and disease. <i>Nature Reviews Immunology</i> , 2020, 20, 375-388.	10.6	1,345
255	ACOD1 in immunometabolism and disease. <i>Cellular and Molecular Immunology</i> , 2020, 17, 822-833.	4.8	88
256	Metabolic Reprogramming of Mouse Bone Marrow Derived Macrophages Following Erythrophagocytosis. <i>Frontiers in Physiology</i> , 2020, 11, 396.	1.3	12
257	Amino Assets: How Amino Acids Support Immunity. <i>Cell Metabolism</i> , 2020, 32, 154-175.	7.2	256
258	Characterization of the Inflammatory Response to Severe COVID-19 Illness. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 202, 812-821.	2.5	487
259	Itaconate prevents abdominal aortic aneurysm formation through inhibiting inflammation via activation of Nrf2. <i>EBioMedicine</i> , 2020, 57, 102832.	2.7	72
260	Eriocitrin alleviates oxidative stress and inflammatory response in cerebral ischemia reperfusion rats by regulating phosphorylation levels of Nrf2/NQO-1/HO-1/NF- κ B p65 proteins. <i>Annals of Translational Medicine</i> , 2020, 8, 757-757.	0.7	29
261	Altered iron metabolism in cystic fibrosis macrophages: the impact of CFTR modulators and implications for <i>Pseudomonas aeruginosa</i> survival. <i>Scientific Reports</i> , 2020, 10, 10935.	1.6	25
262	4-Octyl itaconate protects against renal fibrosis via inhibiting TGF- β 2/Smad pathway, autophagy and reducing generation of reactive oxygen species. <i>European Journal of Pharmacology</i> , 2020, 873, 172989.	1.7	42
263	Targeting Evolutionary Conserved Oxidative Stress and Immunometabolic Pathways for the Treatment of Respiratory Infectious Diseases. <i>Antioxidants and Redox Signaling</i> , 2020, 32, 993-1013.	2.5	20
264	Advances into understanding metabolites as signaling molecules in cancer progression. <i>Current Opinion in Cell Biology</i> , 2020, 63, 144-153.	2.6	22
265	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
266	Pathway paradigms revealed from the genetics of inflammatory bowel disease. <i>Nature</i> , 2020, 578, 527-539.	13.7	408
267	The immunologic Warburg effect: Evidence and therapeutic opportunities in autoimmunity. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2020, 12, e1486.	6.6	60
268	Moving towards a systems-based classification of innate immune-mediated diseases. <i>Nature Reviews Rheumatology</i> , 2020, 16, 222-237.	3.5	58
269	Liver macrophages inhibit the endogenous antioxidant response in obesity-associated insulin resistance. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	43
270	Type I Interferon Response Dysregulates Host Iron Homeostasis and Enhances <i>Candida glabrata</i> Infection. <i>Cell Host and Microbe</i> , 2020, 27, 454-466.e8.	5.1	41

#	ARTICLE	IF	CITATIONS
271	Keap1-targeting microRNA-941 protects endometrial cells from oxygen and glucose deprivation-re-oxygenation via activation of Nrf2 signaling. <i>Cell Communication and Signaling</i> , 2020, 18, 32.	2.7	12
272	Metabolic characterisation of THP-1 macrophage polarisation using LC-MS-based metabolite profiling. <i>Metabolomics</i> , 2020, 16, 33.	1.4	42
273	Electrophiles against (Skin) Diseases: More Than Nrf2. <i>Biomolecules</i> , 2020, 10, 271.	1.8	20
274	BCG-induced trained immunity in macrophage: reprogramming of glucose metabolism. <i>International Reviews of Immunology</i> , 2020, 39, 83-96.	1.5	15
275	Redox Signaling from Mitochondria: Signal Propagation and Its Targets. <i>Biomolecules</i> , 2020, 10, 93.	1.8	26
276	Macrophage activation as an archetype of mitochondrial repurposing. <i>Molecular Aspects of Medicine</i> , 2020, 71, 100838.	2.7	18
277	Dimethyl itaconate protects against fungal keratitis by activating the Nrf2/HO-1 signaling pathway. <i>Immunology and Cell Biology</i> , 2020, 98, 229-241.	1.0	47
278	Krebs Cycle Reborn in Macrophage Immunometabolism. <i>Annual Review of Immunology</i> , 2020, 38, 289-313.	9.5	244
279	Immune-Responsive Gene 1/Itaconate Activates Nuclear Factor Erythroid 2-Related Factor 2 in Hepatocytes to Protect Against Liver Ischemia-Reperfusion Injury. <i>Hepatology</i> , 2020, 72, 1394-1411.	3.6	124
280	Impact of Immunometabolism on Cancer Metastasis: A Focus on T Cells and Macrophages. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2020, 10, a037044.	2.9	10
281	Microbial Screening Based on the Mizoroki-Heck Reaction Permits Exploration of Hydroxyhexylitaconic-Acid-Producing Fungi in Soils. <i>Microorganisms</i> , 2020, 8, 648.	1.6	8
282	NRF2 as a regulator of cell metabolism and inflammation in cancer. <i>Carcinogenesis</i> , 2020, 41, 405-416.	1.3	160
283	Dimethyl itaconate, an itaconate derivative, exhibits immunomodulatory effects on neuroinflammation in experimental autoimmune encephalomyelitis. <i>Journal of Neuroinflammation</i> , 2020, 17, 138.	3.1	58
284	Molecular mechanisms and systemic targeting of NRF2 dysregulation in cancer. <i>Biochemical Pharmacology</i> , 2020, 177, 114002.	2.0	20
285	Beyond repression of Nrf2: An update on Keap1. <i>Free Radical Biology and Medicine</i> , 2020, 157, 63-74.	1.3	144
286	Glycolysis – a key player in the inflammatory response. <i>FEBS Journal</i> , 2020, 287, 3350-3369.	2.2	250
287	Cell-intrinsic metabolic regulation of mononuclear phagocyte activation: Findings from the tip of the iceberg. <i>Immunological Reviews</i> , 2020, 295, 54-67.	2.8	45
288	Interferon Gamma Reprograms Host Mitochondrial Metabolism through Inhibition of Complex II To Control Intracellular Bacterial Replication. <i>Infection and Immunity</i> , 2020, 88, .	1.0	17

#	ARTICLE	IF	CITATIONS
289	NF- κ B and Keap1 Interaction Represses Nrf2-Mediated Antioxidant Response in Rabbit Hemorrhagic Disease Virus Infection. <i>Journal of Virology</i> , 2020, 94, .	1.5	23
290	Metabolic Checkpoints in Rheumatoid Arthritis. <i>Frontiers in Physiology</i> , 2020, 11, 347.	1.3	41
291	Intracellular and Intercellular Aspects of Macrophage Immunometabolism in Atherosclerosis. <i>Circulation Research</i> , 2020, 126, 1209-1227.	2.0	116
292	Cytokine-like Roles for Metabolites in Immunity. <i>Molecular Cell</i> , 2020, 78, 814-823.	4.5	119
293	Therapeutic effects of CO-releaser/Nrf2 activator hybrids (HYCOs) in the treatment of skin wound, psoriasis and multiple sclerosis. <i>Redox Biology</i> , 2020, 34, 101521.	3.9	24
294	Multi-omics systems toxicology study of mouse lung assessing the effects of aerosols from two heat-not-burn tobacco products and cigarette smoke. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 1056-1073.	1.9	25
295	Immunometabolism: From basic mechanisms to translation. <i>Immunological Reviews</i> , 2020, 295, 5-14.	2.8	208
296	Natural phenylethanoid glycosides isolated from <i>Callicarpa kwangtungensis</i> suppressed lipopolysaccharide-mediated inflammatory response via activating Keap1/Nrf2/HO-1 pathway in RAW 264.7 macrophages cell. <i>Journal of Ethnopharmacology</i> , 2020, 258, 112857.	2.0	29
297	Cyclovirobuxine D protects against diabetic cardiomyopathy by activating Nrf2-mediated antioxidant responses. <i>Scientific Reports</i> , 2020, 10, 6427.	1.6	21
298	The Molecular Mechanisms Regulating the KEAP1-NRF2 Pathway. <i>Molecular and Cellular Biology</i> , 2020, 40, .	1.1	620
299	Metabolic reprogramming of LPS-stimulated human lung macrophages involves tryptophan metabolism and the aspartate-arginosuccinate shunt. <i>PLoS ONE</i> , 2020, 15, e0230813.	1.1	18
300	<i>Drosophila</i> as a Model System to Investigate the Effects of Mitochondrial Variation on Innate Immunity. <i>Frontiers in Immunology</i> , 2020, 11, 521.	2.2	23
301	Hydrogen Sulfide Alleviates Liver Injury Through the S-Adenosylmethionine (SAM)-Sulfhydrated-Kelch-Like ECH-Associated Protein 1/Nuclear Erythroid 2-Related Factor 2/Low-Density Lipoprotein Receptor-Related Protein 1 Pathway. <i>Hepatology</i> , 2021, 73, 282-302.	3.6	62
302	How could we forget immunometabolism in SARS-CoV2 infection or COVID-19?. <i>International Reviews of Immunology</i> , 2021, 40, 72-107.	1.5	33
303	Hexosamine biosynthetic pathway promotes the antiviral activity of SAMHD1 by enhancing O-GlcNAc transferase-mediated protein O-GlcNAcylation. <i>Theranostics</i> , 2021, 11, 805-823.	4.6	34
304	Metabolic regulation of innate immune cell phenotypes during wound repair and regeneration. <i>Current Opinion in Immunology</i> , 2021, 68, 72-82.	2.4	9
305	Structural insights into the multiple binding modes of Dimethyl Fumarate (DMF) and its analogs to the Kelch domain of Keap1. <i>FEBS Journal</i> , 2021, 288, 1599-1613.	2.2	41
306	Shenyan Kangfu tablet alleviates diabetic kidney disease through attenuating inflammation and modulating the gut microbiota. <i>Journal of Natural Medicines</i> , 2021, 75, 84-98.	1.1	23

#	ARTICLE	IF	CITATIONS
307	Dimethyl Itaconate Alleviates the Inflammatory Responses of Macrophages in Sepsis. <i>Inflammation</i> , 2021, 44, 549-557.	1.7	40
308	Metabolic Flexibility Assists Reprogramming of Central and Peripheral Innate Immunity During Neurodevelopment. <i>Molecular Neurobiology</i> , 2021, 58, 703-718.	1.9	4
309	Immunometabolic control of trained immunity. <i>Molecular Aspects of Medicine</i> , 2021, 77, 100897.	2.7	71
310	Characterization of cellular oxidative stress response by stoichiometric redox proteomics. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 320, C182-C194.	2.1	23
311	Macrophage metabolic reprogramming during chronic lung disease. <i>Mucosal Immunology</i> , 2021, 14, 282-295.	2.7	53
312	The key role of Warburg effect in SARS-CoV-2 replication and associated inflammatory response. <i>Biochimie</i> , 2021, 180, 169-177.	1.3	97
313	NRF2-dependent stress defense in tumor antioxidant control and immune evasion. <i>Pigment Cell and Melanoma Research</i> , 2021, 34, 268-279.	1.5	20
314	Modification of Proteins by Metabolites in Immunity. <i>Immunity</i> , 2021, 54, 19-31.	6.6	86
315	Macrophage Immunomodulation Through New Polymers that Recapitulate Functional Effects of Itaconate as a Power House of Innate Immunity. <i>Advanced Functional Materials</i> , 2021, 31, 2003341.	7.8	12
316	Redox regulation of immunometabolism. <i>Nature Reviews Immunology</i> , 2021, 21, 363-381.	10.6	225
317	Metabolic regulatory crosstalk between tumor microenvironment and tumor-associated macrophages. <i>Theranostics</i> , 2021, 11, 1016-1030.	4.6	149
318	The Role of Toll-Like Receptor 4 in Infectious and Non Infectious Inflammation. <i>Agents and Actions Supplements</i> , 2021, , .	0.2	2
319	Discovery of post-translational modifications in immunometabolism by chemical proteomics. <i>Current Opinion in Biotechnology</i> , 2021, 68, 37-43.	3.3	10
320	Virus-induced metabolic reprogramming and innate sensing hereof by the infected host. <i>Current Opinion in Biotechnology</i> , 2021, 68, 44-50.	3.3	24
321	Caprylic acid enhances hydroxyhexylitaconic acid production in <i>Aspergillus niger</i> S17-5. <i>Journal of Applied Microbiology</i> , 2021, 130, 1972-1980.	1.4	2
322	TCA cycle signalling and the evolution of eukaryotes. <i>Current Opinion in Biotechnology</i> , 2021, 68, 72-88.	3.3	34
323	Lactate modulation of immune responses in inflammatory versus tumour microenvironments. <i>Nature Reviews Immunology</i> , 2021, 21, 151-161.	10.6	330
325	Characterization of drug-induced human mitochondrial ADP/ATP carrier inhibition. <i>Theranostics</i> , 2021, 11, 5077-5091.	4.6	12

#	ARTICLE	IF	CITATIONS
326	Immunoresponsive gene 1 modulates the severity of brain injury in cerebral ischaemia. <i>Brain Communications</i> , 2021, 3, fcab187.	1.5	13
327	Optimization of <i>Jiuzao</i> protein hydrolysis conditions and antioxidant activity <i>in vivo</i> of <i>Jiuzao</i> tetrapeptide Asp-Arg-Glu-Leu by elevating the Nrf2/Keap1-p38/PI3K-MafK signaling pathway. <i>Food and Function</i> , 2021, 12, 4808-4824.	2.1	34
330	Aldolase A Enhances Intrahepatic Cholangiocarcinoma Proliferation and Invasion through Promoting Glycolysis. <i>International Journal of Biological Sciences</i> , 2021, 17, 1782-1794.	2.6	9
331	The Taming of Nuclear Factor Erythroid-2-Related Factor-2 (Nrf2) Deglycation by Fructosamine-3-Kinase (FN3K)-Inhibitors-A Novel Strategy to Combat Cancers. <i>Cancers</i> , 2021, 13, 281.	1.7	14
332	Metabolomics in infectious diseases and drug discovery. <i>Molecular Omics</i> , 2021, 17, 376-393.	1.4	62
333	Inhibition of succinate dehydrogenase activity impairs human T cell activation and function. <i>Scientific Reports</i> , 2021, 11, 1458.	1.6	24
334	Protective Effect of Mitochondria-Targeted Antioxidants against Inflammatory Response to Lipopolysaccharide Challenge: A Review. <i>Pharmaceutics</i> , 2021, 13, 144.	2.0	25
335	Chemoproteomic profiling of itaconations in <i>Salmonella</i> . <i>Chemical Science</i> , 2021, 12, 6059-6063.	3.7	17
336	A Mitochondrial Polymorphism Alters Immune Cell Metabolism and Protects Mice from Skin Inflammation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1006.	1.8	17
337	Drivers of Infectious Disease Seasonality: Potential Implications for COVID-19. <i>Journal of Biological Rhythms</i> , 2021, 36, 35-54.	1.4	45
338	Metabolic reprogramming in macrophage responses. <i>Biomarker Research</i> , 2021, 9, 1.	2.8	227
339	Nrf2 is a Central Regulator of the Metabolic Landscape in Macrophages and Finetunes Their Inflammatory Response. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
341	The potential of using itaconate as treatment for inflammation-related heart diseases. <i>Tzu Chi Medical Journal</i> , 2022, 34, 113.	0.4	5
342	Selenium-dependent metabolic reprogramming during inflammation and resolution. <i>Journal of Biological Chemistry</i> , 2021, 296, 100410.	1.6	12
343	Tumor-Associated Macrophages in Pancreatic Ductal Adenocarcinoma: Origin, Polarization, Function, and Reprogramming. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 607209.	1.8	103
344	Crosstalk Between <i>Staphylococcus aureus</i> and Innate Immunity: Focus on Immunometabolism. <i>Frontiers in Immunology</i> , 2020, 11, 621750.	2.2	22
345	Macrophage Responses to Environmental Stimuli During Homeostasis and Disease. <i>Endocrine Reviews</i> , 2021, 42, 407-435.	8.9	21
347	Cellular Metabolites Regulate Central Nucleic Acid Sensing Pathways. <i>Frontiers in Immunology</i> , 2021, 12, 635738.	2.2	3

#	ARTICLE	IF	CITATIONS
348	The Nrf2 pathway in psychiatric disorders: pathophysiological role and potential targeting. <i>Expert Opinion on Therapeutic Targets</i> , 2021, 25, 115-139.	1.5	10
349	Not too fat to fight: The emerging role of macrophage fatty acid metabolism in immunity to <i>Mycobacterium tuberculosis</i> . <i>Immunological Reviews</i> , 2021, 301, 84-97.	2.8	37
350	TLR Agonists as Mediators of Trained Immunity: Mechanistic Insight and Immunotherapeutic Potential to Combat Infection. <i>Frontiers in Immunology</i> , 2020, 11, 622614.	2.2	65
352	The Dynamic Inflammatory Tissue Microenvironment: Signaling and Disease Therapy by Biomaterials. <i>Research</i> , 2021, 2021, 4189516.	2.8	35
353	Dichloroacetate reverses sepsis-induced hepatic metabolic dysfunction. <i>ELife</i> , 2021, 10, .	2.8	39
354	Itaconate Alters Succinate and Coenzyme A Metabolism via Inhibition of Mitochondrial Complex II and Methylmalonyl-CoA Mutase. <i>Metabolites</i> , 2021, 11, 117.	1.3	35
355	Studies on the Changes of Pharmacokinetics Behaviors of Phytochemicals and the Influence on Endogenous Metabolites After the Combination of Radix Bupleuri and Radix Paeoniae Alba Based on Multi-Component Pharmacokinetics and Metabolomics. <i>Frontiers in Pharmacology</i> , 2021, 12, 630970.	1.6	7
356	Discovery of Protein Modifications Using Differential Tandem Mass Spectrometry Proteomics. <i>Journal of Proteome Research</i> , 2021, 20, 1835-1848.	1.8	13
357	Suppressing the KIF20A/NUAK1/Nrf2/GPX4 signaling pathway induces ferroptosis and enhances the sensitivity of colorectal cancer to oxaliplatin. <i>Aging</i> , 2021, 13, 13515-13534.	1.4	62
358	Targeting Immune Cell Metabolism in the Treatment of Inflammatory Bowel Disease. <i>Inflammatory Bowel Diseases</i> , 2021, 27, 1684-1693.	0.9	14
359	Discovery and SAR studies of 3-amino-4-(phenylsulfonyl)tetrahydrothiophene 1,1-dioxides as non-electrophilic antioxidant response element (ARE) activators. <i>Bioorganic Chemistry</i> , 2021, 108, 104614.	2.0	5
360	Itaconate confers tolerance to late NLRP3 inflammasome activation. <i>Cell Reports</i> , 2021, 34, 108756.	2.9	105
361	Targeting macrophage polarization by Nrf2 agonists for treating various xenobiotics-induced toxic responses. <i>Toxicology Mechanisms and Methods</i> , 2021, 31, 334-342.	1.3	9
362	Dimethyl Itaconate-Loaded Nanofibers Rewrite Macrophage Polarization, Reduce Inflammation, and Enhance Repair of Myocardial Infarction. <i>Small</i> , 2021, 17, e2006992.	5.2	33
363	Panaxydol attenuates ferroptosis against LPS-induced acute lung injury in mice by Keap1-Nrf2/HO-1 pathway. <i>Journal of Translational Medicine</i> , 2021, 19, 96.	1.8	164
364	Interleukin-1 and Systemic Sclerosis: Getting to the Heart of Cardiac Involvement. <i>Frontiers in Immunology</i> , 2021, 12, 653950.	2.2	26
365	Toward Renewable and Functional Biomedical Polymers with Tunable Degradation Rates Based on Itaconic Acid and 1,8-Octanediol. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1943-1955.	2.0	13
366	Stoichiometric Thiol Redox Proteomics for Quantifying Cellular Responses to Perturbations. <i>Antioxidants</i> , 2021, 10, 499.	2.2	19

#	ARTICLE	IF	CITATIONS
367	Itaconate aggravates experimental colitis. <i>Clinics and Research in Hepatology and Gastroenterology</i> , 2021, 45, 101629.	0.7	3
368	Neutrophils in the Pathogenesis of Rheumatoid Arthritis and Systemic Lupus Erythematosus: Same Foe Different M.O.. <i>Frontiers in Immunology</i> , 2021, 12, 649693.	2.2	90
369	How Changes in the Nutritional Landscape Shape Gut Immunometabolism. <i>Nutrients</i> , 2021, 13, 823.	1.7	14
370	<i>Staphylococcus aureus</i> induces an itaconate-dominated immunometabolic response that drives biofilm formation. <i>Nature Communications</i> , 2021, 12, 1399.	5.8	72
371	Integrated cytokine and metabolite analysis reveals immunometabolic reprogramming in COVID-19 patients with therapeutic implications. <i>Nature Communications</i> , 2021, 12, 1618.	5.8	168
372	Crystal Structure of an Active Site Mutant Form of IRG1 from <i>Bacillus subtilis</i> . <i>Crystals</i> , 2021, 11, 350.	1.0	1
373	Nrf2 signalling pathway and autophagy impact on the preventive effect of green tea extract against alcohol-induced liver injury. <i>Journal of Pharmacy and Pharmacology</i> , 2021, 73, 986-995.	1.2	9
374	The Role of NRF2/KEAP1 Signaling Pathway in Cancer Metabolism. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4376.	1.8	58
375	Epigenetic Remodeling in Innate Immunity and Inflammation. <i>Annual Review of Immunology</i> , 2021, 39, 279-311.	9.5	60
376	The Warburg Effect Occurs Rapidly in Stimulated Human Adult but Not Umbilical Cord Blood Derived Macrophages. <i>Frontiers in Immunology</i> , 2021, 12, 657261.	2.2	13
377	Inflammatory processes in the liver: divergent roles in homeostasis and pathology. <i>Cellular and Molecular Immunology</i> , 2021, 18, 1375-1386.	4.8	32
378	The Keap1-Nrf2 System: A Mediator between Oxidative Stress and Aging. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-16.	1.9	162
379	Mitochondria as Key Players in the Pathogenesis and Treatment of Rheumatoid Arthritis. <i>Frontiers in Immunology</i> , 2021, 12, 673916.	2.2	39
380	Lipopolysaccharide-Induced Nitric Oxide and Prostaglandin E2 Production Is Inhibited by Tellimagrandin II in Mouse and Human Macrophages. <i>Life</i> , 2021, 11, 411.	1.1	7
382	Exploring the evolutionary roots and physiological function of itaconate. <i>Current Opinion in Biotechnology</i> , 2021, 68, 144-150.	3.3	13
383	Establishment, Validation, and Initial Application of a Sensitive LC-MS/MS Assay for Quantification of the Naturally Occurring Isomers Itaconate, Mesaconate, and Citraconate. <i>Metabolites</i> , 2021, 11, 270.	1.3	12
384	Single-Cell Immunoblotting based on a Photoclick Hydrogel Enables High-Throughput Screening and Accurate Profiling of Exogenous Gene Expression. <i>Advanced Materials</i> , 2021, 33, e2101108.	11.1	6
385	Complexity of macrophage metabolism in infection. <i>Current Opinion in Biotechnology</i> , 2021, 68, 231-239.	3.3	37

#	ARTICLE	IF	CITATIONS
386	Itaconate ameliorates methicillin-resistant <i>Staphylococcus aureus</i> -induced acute lung injury through the Nrf2/ARE pathway. <i>Annals of Translational Medicine</i> , 2021, 9, 712-712.	0.7	20
387	Effect of pH on the antimicrobial activity of the macrophage metabolite itaconate. <i>Microbiology (United Kingdom)</i> , 2021, 167, .	0.7	12
388	Immunometabolism of Tissue-Resident Macrophages – An Appraisal of the Current Knowledge and Cutting-Edge Methods and Technologies. <i>Frontiers in Immunology</i> , 2021, 12, 665782.	2.2	15
389	Elevated type I interferon responses potentiate metabolic dysfunction, inflammation, and accelerated aging in mtDNA mutator mice. <i>Science Advances</i> , 2021, 7, .	4.7	63
391	HDAC9 exacerbates myocardial infarction via inactivating Nrf2 pathways. <i>Journal of Pharmacy and Pharmacology</i> , 2021, , .	1.2	4
392	Integrative metabolomics and transcriptomics identifies itaconate as an adjunct therapy to treat ocular bacterial infection. <i>Cell Reports Medicine</i> , 2021, 2, 100277.	3.3	20
393	Stimulation of de novo glutathione synthesis by nitrofurantoin for enhanced resilience of hepatocytes. <i>Cell Biology and Toxicology</i> , 2022, 38, 847-864.	2.4	8
394	4-OI Attenuates Carbon Tetrachloride-Induced Hepatic Injury via Regulating Oxidative Stress and the Inflammatory Response. <i>Frontiers in Pharmacology</i> , 2021, 12, 651444.	1.6	15
395	The Emerging Application of Itaconate: Promising Molecular Targets and Therapeutic Opportunities. <i>Frontiers in Chemistry</i> , 2021, 9, 669308.	1.8	37
396	Heterogeneous multimeric structure of isocitrate lyase in complex with succinate and itaconate provides novel insights into its inhibitory mechanism. <i>PLoS ONE</i> , 2021, 16, e0251067.	1.1	6
397	Neuroimmune metabolism: Uncovering the role of metabolic reprogramming in central nervous system disease. <i>Journal of Neurochemistry</i> , 2021, 158, 8-13.	2.1	4
398	Metabolic reprogramming and epigenetic modifications on the path to cancer. <i>Protein and Cell</i> , 2022, 13, 877-919.	4.8	179
399	NOD-Like Receptors: Guards of Cellular Homeostasis Perturbation during Infection. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6714.	1.8	12
400	Metabolic regulation in the immune response to cancer. <i>Cancer Communications</i> , 2021, 41, 661-694.	3.7	23
401	Reversing Post-Infectious Epigenetic-Mediated Immune Suppression. <i>Frontiers in Immunology</i> , 2021, 12, 688132.	2.2	21
402	One-Step Synthesis of 4-Octyl Itaconate through the Structure Control of Lipase. <i>Journal of Organic Chemistry</i> , 2021, 86, 7895-7903.	1.7	7
403	Protective effects of 4-octyl itaconate against inflammatory response in angiotensin II-induced oxidative stress in human primary retinal pigment epithelium. <i>Biochemical and Biophysical Research Communications</i> , 2021, 557, 77-84.	1.0	2
404	Nrf2 in Cancer, Detoxifying Enzymes and Cell Death Programs. <i>Antioxidants</i> , 2021, 10, 1030.	2.2	22

#	ARTICLE	IF	CITATIONS
406	Pre-operative exercise therapy triggers anti-inflammatory trained immunity of Kupffer cells through metabolic reprogramming. <i>Nature Metabolism</i> , 2021, 3, 843-858.	5.1	40
407	Autophagy in metabolism and quality control: opposing, complementary or interlinked functions?. <i>Autophagy</i> , 2022, 18, 283-292.	4.3	32
408	Protective effect of dimethyl itaconate against fibroblast-to-myofibroblast differentiation during pulmonary fibrosis by inhibiting TXNIP. <i>Journal of Cellular Physiology</i> , 2021, 236, 7734-7744.	2.0	15
409	Role of Polyphenols as Antioxidant Supplementation in Ischemic Stroke. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-19.	1.9	24
410	Neuroprotective Effects of Sodium Butyrate through Suppressing Neuroinflammation and Modulating Antioxidant Enzymes. <i>Neurochemical Research</i> , 2021, 46, 2348-2358.	1.6	22
411	MYC-mediated early glycolysis negatively regulates proinflammatory responses by controlling IRF4 in inflammatory macrophages. <i>Cell Reports</i> , 2021, 35, 109264.	2.9	30
412	Human Metapneumovirus Induces IRF1 via TANK-Binding Kinase 1 and Type I IFN. <i>Frontiers in Immunology</i> , 2021, 12, 563336.	2.2	4
413	Metabolic Regulation of Macrophage Activation. <i>Journal of Innate Immunity</i> , 2022, 14, 51-68.	1.8	65
414	<i>Pseudomonas aeruginosa</i> Consumption of Airway Metabolites Promotes Lung Infection. <i>Pathogens</i> , 2021, 10, 957.	1.2	6
415	Effects of itaconic acid on neuronal viability and brain mitochondrial functions. <i>Journal of Bioenergetics and Biomembranes</i> , 2021, 53, 499-511.	1.0	3
416	Intestinal Metabolites Influence Macrophage Phagocytosis and Clearance of Bacterial Infection. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 622491.	1.8	7
417	Integration of transcriptional and metabolic control in macrophage activation. <i>EMBO Reports</i> , 2021, 22, e53251.	2.0	16
418	Role of NRF2 in Lung Cancer. <i>Cells</i> , 2021, 10, 1879.	1.8	35
419	Regulatory Macrophages and Tolerogenic Dendritic Cells in Myeloid Regulatory Cell-Based Therapies. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7970.	1.8	24
420	Cyclopentenone Prostaglandins: Biologically Active Lipid Mediators Targeting Inflammation. <i>Frontiers in Physiology</i> , 2021, 12, 640374.	1.3	11
421	Insights on the mechanisms of action of ozone in the medical therapy against COVID-19. <i>International Immunopharmacology</i> , 2021, 96, 107777.	1.7	24
422	Analogues of imine resveratrol alleviate oxidative stress-induced neurotoxicity in PC12 cells via activation of Nrf2. <i>FEBS Open Bio</i> , 2021, 11, 2127-2138.	1.0	2
423	Mitochondrial metabolism regulates macrophage biology. <i>Journal of Biological Chemistry</i> , 2021, 297, 100904.	1.6	90

#	ARTICLE	IF	CITATIONS
424	Immune-based therapies in cardiovascular and metabolic diseases: past, present and future. <i>Nature Reviews Immunology</i> , 2021, 21, 669-679.	10.6	16
425	A novel Keap1 inhibitor iKeap1 activates Nrf2 signaling and ameliorates hydrogen peroxide-induced oxidative injury and apoptosis in osteoblasts. <i>Cell Death and Disease</i> , 2021, 12, 679.	2.7	20
426	Dimethyl itaconate inhibits LPS-induced microglia inflammation and inflammasome-mediated pyroptosis via inducing autophagy and regulating the Nrf2/HO-1 signaling pathway. <i>Molecular Medicine Reports</i> , 2021, 24, .	1.1	16
427	Immunometabolism Modulation in Therapy. <i>Biomedicines</i> , 2021, 9, 798.	1.4	5
428	Involvement of Tricarboxylic Acid Cycle Metabolites in Kidney Diseases. <i>Biomolecules</i> , 2021, 11, 1259.	1.8	20
429	The emerging role of metabolism in fibrosis. <i>Trends in Endocrinology and Metabolism</i> , 2021, 32, 639-653.	3.1	32
431	Spontaneous hydrolysis and spurious metabolic properties of α -ketoglutarate esters. <i>Nature Communications</i> , 2021, 12, 4905.	5.8	17
432	The Cell-Permeable Derivative of the Immunoregulatory Metabolite Itaconate, 4-Octyl Itaconate, Is Anti-Fibrotic in Systemic Sclerosis. <i>Cells</i> , 2021, 10, 2053.	1.8	14
433	Tuberculosis lymph node granulomas: using transcriptomics to discover immunopathology paradigms and guide host-directed therapy. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	1
434	Gut microbiome-mediated metabolism effects on immunity in rural and urban African populations. <i>Nature Communications</i> , 2021, 12, 4845.	5.8	35
435	Metabolic Adaptation of Macrophages as Mechanism of Defense against Crystalline Silica. <i>Journal of Immunology</i> , 2021, 207, 1627-1640.	0.4	17
436	Hepatic miR-144 Drives Fumarase Activity Preventing NRF2 Activation During Obesity. <i>Gastroenterology</i> , 2021, 161, 1982-1997.e11.	0.6	34
437	Krebs Cycle Rewired: Driver of Atherosclerosis Progression?. <i>Current Medicinal Chemistry</i> , 2022, 29, 2322-2333.	1.2	5
438	Inflammasome activation at the crux of severe COVID-19. <i>Nature Reviews Immunology</i> , 2021, 21, 694-703.	10.6	210
440	Protective Role of 4-Octyl Itaconate in Murine LPS/D-GalN-Induced Acute Liver Failure via Inhibiting Inflammation, Oxidative Stress, and Apoptosis. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-11.	1.9	17
441	Salmonella Typhimurium impairs glycolysis-mediated acidification of phagosomes to evade macrophage defense. <i>PLoS Pathogens</i> , 2021, 17, e1009943.	2.1	10
442	Integrative Analysis of the Roles of lncRNAs and mRNAs in Itaconate-Mediated Protection Against Liver Ischemia-Reperfusion Injury in Mice. <i>Journal of Inflammation Research</i> , 2021, Volume 14, 4519-4536.	1.6	5
443	Aconitate decarboxylase 1 participates in the control of pulmonary Brucella infection in mice. <i>PLoS Pathogens</i> , 2021, 17, e1009887.	2.1	15

#	ARTICLE	IF	CITATIONS
444	TCA cycle remodeling drives proinflammatory signaling in humans with pulmonary tuberculosis. <i>PLoS Pathogens</i> , 2021, 17, e1009941.	2.1	21
445	NRF2 in Viral Infection. <i>Antioxidants</i> , 2021, 10, 1491.	2.2	37
446	Metabolic orchestration of the wound healing response. <i>Cell Metabolism</i> , 2021, 33, 1726-1743.	7.2	101
447	Itaconate regulates macrophage function through stressful iron-sulfur cluster disrupting and iron metabolism rebalancing. <i>FASEB Journal</i> , 2021, 35, e21936.	0.2	8
448	The immunometabolite itaconate inhibits heme synthesis and remodels cellular metabolism in erythroid precursors. <i>Blood Advances</i> , 2021, 5, 4831-4841.	2.5	8
449	The Role of Tricarboxylic Acid Cycle Metabolites in Viral Infections. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 725043.	1.8	41
450	Itaconic acid exerts anti-inflammatory and antibacterial effects via promoting pentose phosphate pathway to produce ROS. <i>Scientific Reports</i> , 2021, 11, 18173.	1.6	46
451	A polygenic-score-based approach for identification of gene-drug interactions stratifying breast cancer risk. <i>American Journal of Human Genetics</i> , 2021, 108, 1752-1764.	2.6	7
452	Host Immune-Metabolic Adaptations Upon Mycobacterial Infections and Associated Co-Morbidities. <i>Frontiers in Immunology</i> , 2021, 12, 747387.	2.2	14
453	Brilliant glycans and glycosylation: Seq and ye shall find. <i>International Journal of Biological Macromolecules</i> , 2021, 189, 279-291.	3.6	33
454	Antitumor effect of dimethyl itaconate on thymic carcinoma by targeting LDHA-mTOR axis. <i>Life Sciences</i> , 2021, 282, 119847.	2.0	6
455	iKeap1 activates Nrf2 signaling to protect myocardial cells from oxygen glucose deprivation/re-oxygenation-induced oxidative injury. <i>Biochemical and Biophysical Research Communications</i> , 2021, 574, 110-117.	1.0	4
456	4-Octyl itaconate modified demineralized bone matrix scaffold improves bone repair by regulating early inflammation. <i>Chemical Engineering Journal</i> , 2021, 425, 131490.	6.6	10
457	Targeting immunometabolism to treat COVID-19. <i>Immunotherapy Advances</i> , 2021, 1, Itab013.	1.2	29
458	Emerging role of the itaconate-mediated rescue of cellular metabolic stress. <i>Tzu Chi Medical Journal</i> , 2022, 34, 134.	0.4	4
459	Tricarboxylic Acid (TCA) Cycle Intermediates: Regulators of Immune Responses. <i>Life</i> , 2021, 11, 69.	1.1	66
460	Immunometabolism of Macrophages in Bacterial Infections. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 607650.	1.8	32
461	Regulation of inflammation by the antioxidant haem oxygenase 1. <i>Nature Reviews Immunology</i> , 2021, 21, 411-425.	10.6	172

#	ARTICLE	IF	CITATIONS
462	Natural products in drug discovery: advances and opportunities. <i>Nature Reviews Drug Discovery</i> , 2021, 20, 200-216.	21.5	1,990
463	<i>Listeria monocytogenes</i> upregulates mitochondrial calcium signalling to inhibit LC3-associated phagocytosis as a survival strategy. <i>Nature Microbiology</i> , 2021, 6, 366-379.	5.9	33
464	Influenza A Virus Induces LDHA Expression and Lactate Formation to Inhibit Type I IFN and Promote Replication in Primary Human Airway Epithelium. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
466	Immunity as Cornerstone of Non-Alcoholic Fatty Liver Disease: The Contribution of Oxidative Stress in the Disease Progression. <i>International Journal of Molecular Sciences</i> , 2021, 22, 436.	1.8	40
467	The chemical biology of coronavirus host-cell interactions. <i>RSC Chemical Biology</i> , 2021, 2, 30-46.	2.0	4
468	The Immune Consequences of Lactate in the Tumor Microenvironment. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1259, 113-124.	0.8	43
470	Selective inhibition of mitochondrial respiratory complexes controls the transition of microglia into a neurotoxic phenotype in situ. <i>Brain, Behavior, and Immunity</i> , 2020, 88, 802-814.	2.0	36
471	<i>Pseudomonas aeruginosa</i> Utilizes Host-Derived Itaconate to Redirect Its Metabolism to Promote Biofilm Formation. <i>Cell Metabolism</i> , 2020, 31, 1091-1106.e6.	7.2	109
472	Biomarker Exploration in Human Peripheral Blood Mononuclear Cells for Monitoring Sulforaphane Treatment Responses in Autism Spectrum Disorder. <i>Scientific Reports</i> , 2020, 10, 5822.	1.6	36
473	Comparative evaluation of itaconate and its derivatives reveals divergent inflammasome and type I interferon regulation in macrophages. <i>Nature Metabolism</i> , 2020, 2, 594-602.	5.1	163
474	Glycolytic reprogramming of macrophages activated by NOD1 and TLR4 agonists: No association with proinflammatory cytokine production in normoxia. <i>Journal of Biological Chemistry</i> , 2020, 295, 3099-3114.	1.6	22
478	Metabolic ROS Signaling: To Immunity and Beyond. <i>Biochemistry (Moscow)</i> , 2020, 85, 1650-1667.	0.7	13
479	The Role of Cell Metabolism in Innate Immune Memory. <i>Journal of Innate Immunity</i> , 2022, 14, 42-50.	1.8	40
480	Mitochondrial fidelity and metabolic agility control immune cell fate and function. <i>Journal of Clinical Investigation</i> , 2018, 128, 3651-3661.	3.9	32
481	Immunometabolism of pro-repair cells. <i>Journal of Clinical Investigation</i> , 2019, 129, 2597-2607.	3.9	30
482	Autocrine IFN-I inhibits isocitrate dehydrogenase in the TCA cycle of LPS-stimulated macrophages. <i>Journal of Clinical Investigation</i> , 2019, 129, 4239-4244.	3.9	45
483	Hemolysis transforms liver macrophages into antiinflammatory erythrophagocytes. <i>Journal of Clinical Investigation</i> , 2020, 130, 5576-5590.	3.9	36
484	Tumour necrosis factor signalling in health and disease. <i>F1000Research</i> , 2019, 8, 111.	0.8	228

#	ARTICLE	IF	CITATIONS
485	The crystal structure of mouse IRG1 suggests that cis-aconitate decarboxylase has an open and closed conformation. PLoS ONE, 2020, 15, e0242383.	1.1	6
486	miR-107 inhibition upregulates CAB39 and activates AMPK-Nrf2 signaling to protect osteoblasts from dexamethasone-induced oxidative injury and cytotoxicity. Aging, 2020, 12, 11754-11767.	1.4	18
487	Untargeted metabolomics for uncovering biological markers of human skeletal muscle ageing. Aging, 2020, 12, 12517-12533.	1.4	19
488	FGF23 protects osteoblasts from dexamethasone-induced oxidative injury. Aging, 2020, 12, 19045-19059.	1.4	11
490	<p>4-Octyl Itaconate Alleviates Lipopolysaccharide-Induced Acute Lung Injury in Mice by Inhibiting Oxidative Stress and Inflammation</p>. Drug Design, Development and Therapy, 2020, Volume 14, 5547-5558.	2.0	56
491	Inflammation and Mitochondrial Dysfunction in Autism Spectrum Disorder. CNS and Neurological Disorders - Drug Targets, 2020, 19, 320-333.	0.8	35
492	Dimethyl itaconate protects against lipopolysaccharide-induced endometritis by inhibition of TLR4/NF- κ B and activation of Nrf2/HO-1 signaling pathway in mice. Iranian Journal of Basic Medical Sciences, 2020, 23, 1239-1244.	1.0	9
493	Stimulation of Mytilus galloprovincialis Hemocytes With Different Immune Challenges Induces Differential Transcriptomic, miRNomic, and Functional Responses. Frontiers in Immunology, 2020, 11, 606102.	2.2	17
494	An Optimized Ustilago maydis for Itaconic Acid Production at Maximal Theoretical Yield. Journal of Fungi (Basel, Switzerland), 2021, 7, 20.	1.5	29
495	Zinc and Cadmium in the Aetiology and Pathogenesis of Osteoarthritis and Rheumatoid Arthritis. Nutrients, 2021, 13, 53.	1.7	37
496	Bmal1 integrates mitochondrial metabolism and macrophage activation. ELife, 2020, 9, .	2.8	74
497	Endogenous itaconate is not required for particulate matter-induced NRF2 expression or inflammatory response. ELife, 2020, 9, .	2.8	35
498	ItaCORMs: conjugation with a CO-releasing unit greatly enhances the anti-inflammatory activity of itaconates. RSC Medicinal Chemistry, 2021, 12, 2053-2059.	1.7	4
499	Molecular and Cellular Mechanisms Modulating Trained Immunity by Various Cell Types in Response to Pathogen Encounter. Frontiers in Immunology, 2021, 12, 745332.	2.2	16
500	Influenza A induces lactate formation to inhibit type I IFN in primary human airway epithelium. IScience, 2021, 24, 103300.	1.9	10
501	Impact of intracellular innate immune receptors on immunometabolism. Cellular and Molecular Immunology, 2022, 19, 337-351.	4.8	61
502	Brain-Protective Mechanisms of Transcription Factor NRF2: Toward a Common Strategy for Neurodegenerative Diseases. Annual Review of Pharmacology and Toxicology, 2022, 62, 255-277.	4.2	33
503	Metabolism-Associated Epigenetic and Immunoepigenetic Reprogramming in Liver Cancer. Cancers, 2021, 13, 5250.	1.7	8

#	ARTICLE	IF	CITATIONS
504	Immunometabolism and Organ Transplantation. , 2022, , 257-278.		0
505	Irg1/itaconate metabolic pathway is a crucial determinant of dendritic cells immune-priming function and contributes to resolute allergen-induced airway inflammation. Mucosal Immunology, 2022, 15, 301-313.	2.7	34
506	The Tumor Necrosis Factor Alpha and Interleukin 6 Auto-paracrine Signaling Loop Controls Mycobacterium avium Infection via Induction of IRF1/IRG1 in Human Primary Macrophages. MBio, 2021, 12, e0212121.	1.8	20
507	Metabolic Profile of Innate Immune Cells. , 2022, , 83-114.		0
508	Itaconic acid induces ferroptosis by activating ferritinophagy. Biochemical and Biophysical Research Communications, 2021, 583, 56-62.	1.0	12
509	Macrophages as Emerging Key Players in Mitochondrial Transfers. Frontiers in Cell and Developmental Biology, 2021, 9, 747377.	1.8	17
510	4-Octyl-Itaconate and Dimethyl Fumarate Inhibit COX2 Expression and Prostaglandin Production in Macrophages. Journal of Immunology, 2021, 207, 2561-2569.	0.4	14
511	Aconitate decarboxylase 1 suppresses cerebral ischemia-reperfusion injury in mice. Experimental Neurology, 2022, 347, 113902.	2.0	8
512	Simultaneous Modulation of NLRP3 Inflammasome and Nrf2/ARE Pathway Rescues Thioacetamide-Induced Hepatic Damage in Mice: Role of Oxidative Stress and Inflammation. Inflammation, 2022, 45, 610-626.	1.7	12
513	Metabolic Pathways in Immune Cells Commitment and Fate. , 2022, , 53-82.		0
514	<i>In Vitro</i> and <i>In Vivo</i> Studies Reveal that Hesperetin-7- <i>O</i>-glucoside, a Naturally Occurring Monoglucoside, Exhibits Strong Anti-inflammatory Capacity. Journal of Agricultural and Food Chemistry, 2021, 69, 12753-12762.</i>	2.4	23
515	Tricarboxylic Acid Cycle Activity and Glycerophosphocholine Lipid Recycling Support Dendritic Cell Cytokine Induction in Response to Fungal Patterns. SSRN Electronic Journal, 0, , .	0.4	0
516	Itaconate as an immune modulator. Aging, 2019, 11, 3898-3899.	1.4	6
526	Itaconate as an inflammatory mediator and therapeutic target in cardiovascular medicine. Biochemical Society Transactions, 2021, 49, 2189-2198.	1.6	7
527	Mitochondrial metabolism in macrophages. American Journal of Physiology - Cell Physiology, 2021, 321, C1070-C1081.	2.1	9
528	ACLY Nuclear Translocation in Human Macrophages Drives Proinflammatory Gene Expression by NF- κ B Acetylation. Cells, 2021, 10, 2962.	1.8	24
529	4-Octyl itaconate (4-OI) attenuates lipopolysaccharide-induced acute lung injury by suppressing PI3K/Akt/NF- κ B signaling pathways in mice. Experimental and Therapeutic Medicine, 2020, 21, 141.	0.8	18
530	ĐžŃ, Đ¼ĐµŃ,Đ°Đ±Đ³⁄₄Đ»Đ,Đ·Đ¼Đ° Đ° Đ,Đ¼Đ¼¼ŃfĐ½Đ,Ń,ĐµŃ,Ńf: ĐĐĐš Đ, ĐŃ€ŃfĐ³Đ,Đµ ŃĐ,Đ³Đ½Đ°Đ»Ń«. Biochemistry, 2020, 8		

#	ARTICLE	IF	CITATIONS
531	Immunometabolism and autoimmunity. , 2022, , 31-45.		0
536	Evaluation of Anti-Inflammatory Effects of Celery Leaf and Stem Extracts in LPS-Induced RAW 264.7 Cells Using Nitric Oxide Assay and LC-MS Based Metabolomics. Current Issues in Molecular Biology, 2021, 43, 1876-1888.	1.0	2
537	The Circadian Clock Protein BMAL1 Acts as a Metabolic Sensor In Macrophages to Control the Production of Pro IL-1 β . Frontiers in Immunology, 2021, 12, 700431.	2.2	23
538	Mitochondrial respiration contributes to the interferon gamma response in antigen-presenting cells. ELife, 2021, 10, .	2.8	14
541	LASS2 mediates Nrf2-driven progesterin resistance in endometrial cancer. American Journal of Translational Research (discontinued), 2021, 13, 1280-1289.	0.0	1
542	Irg1-itaconate axis protects against acute kidney injury via activation of Nrf2. American Journal of Translational Research (discontinued), 2021, 13, 1155-1169.	0.0	3
543	Immunometabolites Drive Bacterial Adaptation to the Airway. Frontiers in Immunology, 2021, 12, 790574.	2.2	11
544	HO-1 in Bone Biology: Potential Therapeutic Strategies for Osteoporosis. Frontiers in Cell and Developmental Biology, 2021, 9, 791585.	1.8	18
545	Biochemical genesis of enzymatic and non-enzymatic post-translational modifications. Molecular Aspects of Medicine, 2022, 86, 101053.	2.7	12
546	Exercise Cuts Both Ways with ROS in Remodifying Innate and Adaptive Responses: Rewiring the Redox Mechanism of the Immune System during Exercise. Antioxidants, 2021, 10, 1846.	2.2	5
547	Site-Selective Itaconation of Complex Peptides by Photoredox Catalysis. Angewandte Chemie - International Edition, 2022, 61, .	7.2	19
548	Mapping the metabolomic and lipidomic changes in the bleomycin model of pulmonary fibrosis in young and aged mice. DMM Disease Models and Mechanisms, 2022, 15, .	1.2	17
550	Novel Knowledge-Based Transcriptomic Profiling of Lipid Lysophosphatidylinositol-Induced Endothelial Cell Activation. Frontiers in Cardiovascular Medicine, 2021, 8, 773473.	1.1	15
551	Functional Proteomics Driven by Chemical and Computational Approaches. Chinese Journal of Chemistry, 2022, 40, 628-634.	2.6	3
552	Site-Selective Itaconation of Complex Peptides by Photoredox Catalysis. Angewandte Chemie, 0, , .	1.6	2
553	The role of the electron transport chain in immunity. FASEB Journal, 2021, 35, e21974.	0.2	49
555	Iso-seco-tanaphthalide activates Nrf2 signaling pathway through Keap1 modification and oligomerization to exert anti-inflammatory effects. Free Radical Biology and Medicine, 2022, 178, 398-412.	1.3	9
556	Hijacking host components for bacterial biofilm formation: An advanced mechanism. International Immunopharmacology, 2022, 103, 108471.	1.7	21

#	ARTICLE	IF	CITATIONS
557	Immunometabolism modulation, a new trick of edible and medicinal plants in cancer treatment. <i>Food Chemistry</i> , 2022, 376, 131860.	4.2	12
558	Itaconate and derivatives reduce interferon responses and inflammation in influenza A virus infection. <i>PLoS Pathogens</i> , 2022, 18, e1010219.	2.1	35
559	NRF2: KEAPing Tumors Protected. <i>Cancer Discovery</i> , 2022, 12, 625-643.	7.7	60
560	Modulation of Macrophage Immunometabolism: A New Approach to Fight Infections. <i>Frontiers in Immunology</i> , 2022, 13, 780839.	2.2	37
561	Redox-dependent internalization of the purinergic P2Y ₆ receptor limits colitis progression. <i>Science Signaling</i> , 2022, 15, eabj0644.	1.6	12
562	Itaconate attenuates osteoarthritis by inhibiting STING/NF- κ B axis in chondrocytes and promoting M2 polarization in macrophages. <i>Biochemical Pharmacology</i> , 2022, 198, 114935.	2.0	29
563	Four-Octyl Itaconate Protects Chondrocytes against H ₂ O ₂ -Induced Oxidative Injury and Attenuates Osteoarthritis Progression by Activating Nrf2 Signaling. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-13.	1.9	7
564	The role of itaconate in host defense and inflammation. <i>Journal of Clinical Investigation</i> , 2022, 132, .	3.9	135
565	4-Octyl Itaconate Inhibits lipopolysaccharide (LPS)-induced osteoarthritis via activating Nrf2 signalling pathway. <i>Journal of Cellular and Molecular Medicine</i> , 2022, 26, 1515-1529.	1.6	21
566	Mitochondria and Viral Infection: Advances and Emerging Battlefronts. <i>MBio</i> , 2022, 13, e0209621.	1.8	10
567	Peroxisomes Are Critical for the Development and Maintenance of B1 and Marginal Zone B Cells but Dispensable for Follicular B Cells and T Cells. <i>Journal of Immunology</i> , 2022, 208, 839-850.	0.4	9
568	Nrf2 activation reprograms macrophage intermediary metabolism and suppresses the type I interferon response. <i>IScience</i> , 2022, 25, 103827.	1.9	51
569	Effects of dietary supplementation with itaconic acid on the growth performance, nutrient digestibility, slaughter variables, blood biochemical parameters, and intestinal morphology of broiler chickens. <i>Poultry Science</i> , 2022, 101, 101732.	1.5	16
570	Medium branched chain fatty acids improve the profile of tricarboxylic acid cycle intermediates in mitochondrial fatty acid β -oxidation deficient cells: A comparative study. <i>Journal of Inherited Metabolic Disease</i> , 2022, 45, 541-556.	1.7	4
571	Signaling metabolite L-2-hydroxyglutarate activates the transcription factor HIF-1 α in lipopolysaccharide-activated macrophages. <i>Journal of Biological Chemistry</i> , 2022, 298, 101501.	1.6	15
572	Dimethyl itaconate inhibits neuroinflammation to alleviate chronic pain in mice. <i>Neurochemistry International</i> , 2022, 154, 105296.	1.9	6
574	Itaconate inhibits ferroptosis of macrophage via Nrf2 pathways against sepsis-induced acute lung injury. <i>Cell Death Discovery</i> , 2022, 8, 43.	2.0	82
575	Glucocorticoids coordinate macrophage metabolism through the regulation of the tricarboxylic acid cycle. <i>Molecular Metabolism</i> , 2022, 57, 101424.	3.0	18

#	ARTICLE	IF	CITATIONS
576	Itaconate, Arginine, and Gamma-Aminobutyric Acid: A Host Metabolite Triad Protective Against Mycobacterial Infection. <i>Frontiers in Immunology</i> , 2022, 13, 832015.	2.2	5
577	Controlling the Burden of COVID-19 by Manipulating Host Metabolism. <i>Viral Immunology</i> , 2022, 35, 24-32.	0.6	7
578	Immune-responsive gene 1/itaconate activates nuclear factor erythroid 2-related factor 2 in microglia to protect against spinal cord injury in mice. <i>Cell Death and Disease</i> , 2022, 13, 140.	2.7	16
579	Itaconate and fumarate derivatives inhibit priming and activation of the canonical NLRP3 inflammasome in macrophages. <i>Immunology</i> , 2022, 165, 460-480.	2.0	33
580	Mitochondrial ACOD1/IRG1 in infection and sterile inflammation. <i>Journal of Intensive Medicine</i> , 2022, 2, 78-88.	0.8	16
582	Molecular regulations of circadian rhythm and implications for physiology and diseases. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, 41.	7.1	88
583	Dimethyl itaconate attenuates palmitate-induced insulin resistance in skeletal muscle cells through the AMPK/FGF21/PPAR γ -mediated suppression of inflammation. <i>Life Sciences</i> , 2021, 287, 120129.	2.0	7
584	Mitochondria-targeted supramolecular coordination container encapsulated with exogenous itaconate for synergistic therapy of joint inflammation. <i>Theranostics</i> , 2022, 12, 3251-3272.	4.6	18
585	The Role of Mitochondria in the Immune Response in Critical Illness. <i>Annual Update in Intensive Care and Emergency Medicine</i> , 2022, , 3-11.	0.1	0
586	Metabolism in tumor-associated macrophages. <i>International Review of Cell and Molecular Biology</i> , 2022, 367, 65-100.	1.6	10
587	4-Octyl Itaconate Prevents Free Fatty Acid-Induced Lipid Metabolism Disorder through Activating Nrf2-AMPK Signaling Pathway in Hepatocytes. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-15.	1.9	11
588	Itaconate and Its Derivatives Repress Early Myogenesis In Vitro and In Vivo. <i>Frontiers in Immunology</i> , 2022, 13, 748375.	2.2	5
589	Blockage of citrate export prevents TCA cycle fragmentation via Irg1 inactivation. <i>Cell Reports</i> , 2022, 38, 110391.	2.9	29
590	Melatonergic signalling instructs transcriptional inhibition of IFNGR2 to lessen interleukin-1 β -dependent inflammation. <i>Clinical and Translational Medicine</i> , 2022, 12, e716.	1.7	14
591	Itaconate and itaconate derivatives target JAK1 to suppress alternative activation of macrophages. <i>Cell Metabolism</i> , 2022, 34, 487-501.e8.	7.2	107
592	Itaconate inhibits TET DNA dioxygenases to dampen inflammatory responses. <i>Nature Cell Biology</i> , 2022, 24, 353-363.	4.6	67
593	Recent Advances in Understanding Nrf2 Agonism and Its Potential Clinical Application to Metabolic and Inflammatory Diseases. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2846.	1.8	32
594	The Role of Mitochondria in the Immune Response in Critical Illness. <i>Critical Care</i> , 2022, 26, 80.	2.5	16

#	ARTICLE	IF	CITATIONS
595	A matter of time: temporal structure and functional relevance of macrophage metabolic rewiring. <i>Trends in Endocrinology and Metabolism</i> , 2022, 33, 345-358.	3.1	8
596	Itaconate or how I learned to stop avoiding the study of immunometabolism. <i>PLoS Pathogens</i> , 2022, 18, e1010361.	2.1	8
597	Four-Octyl Itaconate Attenuates UVB-Induced Melanocytes and Keratinocytes Apoptosis by Nrf2 Activation-Dependent ROS Inhibition. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-13.	1.9	11
598	Immunothrombosis and the molecular control of tissue factor by pyroptosis: prospects for new anticoagulants. <i>Biochemical Journal</i> , 2022, 479, 731-750.	1.7	9
600	Immune-responsive gene 1 protects against liver injury caused by concanavalin A via the activation Nrf2/HO-1 pathway and inhibition of ROS activation pathways. <i>Free Radical Biology and Medicine</i> , 2022, 182, 108-118.	1.3	19
601	Macrophage metabolism in the intestine is compartment specific and regulated by the microbiota. <i>Immunology</i> , 2022, 166, 138-152.	2.0	10
602	Trained immunity: A Yin-Yang balance. <i>MedComm</i> , 2022, 3, e121.	3.1	8
603	A urinary proteomic landscape of COVID-19 progression identifies signaling pathways and therapeutic options. <i>Science China Life Sciences</i> , 2022, 65, 1866-1880.	2.3	12
604	Circadian Control of Redox Reactions in the Macrophage Inflammatory Response. <i>Antioxidants and Redox Signaling</i> , 2022, 37, 664-678.	2.5	5
605	Bioinspired Multifunctional Black Phosphorus Hydrogel with Antibacterial and Antioxidant Properties: A Stepwise Countermeasure for Diabetic Skin Wound Healing. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102791.	3.9	69
606	Hepatoprotective Role of 4-Octyl Itaconate in Concanavalin A-Induced Autoimmune Hepatitis. <i>Mediators of Inflammation</i> , 2022, 2022, 1-17.	1.4	8
608	The lipid peroxidation product 4-hydroxynonenal inhibits NLRP3 inflammasome activation and macrophage pyroptosis. <i>Cell Death and Differentiation</i> , 2022, 29, 1790-1803.	5.0	48
609	Itaconate and leptin affecting PPAR γ in M2 macrophages: A potential link to early-onset colorectal cancer. <i>Surgery</i> , 2022, 171, 650-656.	1.0	6
610	KEAP1-Mutant NSCLC: The Catastrophic Failure of a Cell-Protecting Hub. <i>Journal of Thoracic Oncology</i> , 2022, 17, 751-757.	0.5	21
611	Extracellular Vesicles From LPS-Treated Macrophages Aggravate Smooth Muscle Cell Calcification by Propagating Inflammation and Oxidative Stress. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 823450.	1.8	10
612	The Inflammatory Response in Human Keratinocytes Exposed to Cinnamaldehyde Is Regulated by Nrf2. <i>Antioxidants</i> , 2022, 11, 575.	2.2	9
613	Itaconate prolongs the healthy lifespan by activating UPRmt in <i>Caenorhabditis elegans</i> . <i>European Journal of Pharmacology</i> , 2022, 923, 174951.	1.7	4
614	Cardiovascular Benefits of Empagliflozin Are Associated With Gut Microbiota and Plasma Metabolites in Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2022, 107, 1888-1896.	1.8	30

#	ARTICLE	IF	CITATIONS
615	Immunometabolic crosstalk during bacterial infection. <i>Nature Microbiology</i> , 2022, 7, 497-507.	5.9	45
616	One genome, many cell states: epigenetic control of innate immunity. <i>Current Opinion in Immunology</i> , 2022, 75, 102173.	2.4	7
617	Hyperglycemia alters N-glycans on colon cancer cells through increased production of activated monosaccharides. <i>Glycoconjugate Journal</i> , 2022, 39, 663-675.	1.4	1
618	The metabolomic profiling identifies N, N-dimethylglycine as a facilitator of dorsal root ganglia neuron axon regeneration after injury. <i>FASEB Journal</i> , 2022, 36, e22305.	0.2	5
619	OI inhibites development of ovarian cancer by blocking crosstalk between cancer cells and macrophages via HIF-1 α pathway. <i>Biochemical and Biophysical Research Communications</i> , 2022, 606, 142-148.	1.0	3
620	Immune response gene 1 deficiency impairs Nrf2 activation and aggravates liver fibrosis in mice. <i>Biochemical and Biophysical Research Communications</i> , 2022, 607, 103-109.	1.0	8
621	Metabolites as drivers and targets in rheumatoid arthritis. <i>Clinical and Experimental Immunology</i> , 2022, 208, 167-180.	1.1	13
622	Targeting immunometabolism in host-directed therapies to fungal disease. <i>Clinical and Experimental Immunology</i> , 2022, 208, 158-166.	1.1	5
623	Macrophages are metabolically heterogeneous within the tumor microenvironment. <i>Cell Reports</i> , 2021, 37, 110171.	2.9	69
624	4-Octyl Itaconate Supplementation Relieves Soybean Diet-Induced Liver Inflammation and Glycolipid Metabolic Disorders by Activating the Nrf2-Ppar α Pathway in Juvenile Gibel Carp. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 520-531.	2.4	8
626	SGLT2 inhibitor counteracts NLRP3 inflammasome <i>via</i> tubular metabolite itaconate in fibrosis kidney. <i>FASEB Journal</i> , 2022, 36, e22078.	0.2	37
627	Altered Plasma Metabolic Profiles in Chinese Patients With Multiple Sclerosis. <i>Frontiers in Immunology</i> , 2021, 12, 792711.	2.2	5
628	Genome-Wide Analysis of the Cytochrome P450 Gene Family Involved in Salt Tolerance in <i>Gossypium hirsutum</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 685054.	1.7	9
629	Aconitate Decarboxylase 1 Deficiency Exacerbates Mouse Colitis Induced by Dextran Sodium Sulfate. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4392.	1.8	6
630	CD36, a signaling receptor and fatty acid transporter that regulates immune cell metabolism and fate. <i>Journal of Experimental Medicine</i> , 2022, 219, .	4.2	105
631	<i>Klebsiella pneumoniae</i> induces host metabolic stress that promotes tolerance to pulmonary infection. <i>Cell Metabolism</i> , 2022, 34, 761-774.e9.	7.2	36
632	Protein <i>S</i> -Nitrosation: Biochemistry, Identification, Molecular Mechanisms, and Therapeutic Applications. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 5902-5925.	2.9	17
633	Type I interferon antagonism of the JMJD3-IRF4 pathway modulates macrophage activation and polarization. <i>Cell Reports</i> , 2022, 39, 110719.	2.9	13

#	ARTICLE	IF	CITATIONS
661	The IRG1-Itaconate axis: A regulatory hub for immunity and metabolism in macrophages. <i>International Reviews of Immunology</i> , 2023, 42, 364-378.	1.5	8
662	Acetylation of CspC Controls the Las Quorum-Sensing System through Translational Regulation of <i>rsaL</i> in <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2022, 13, e0054722.	1.8	4
663	Crosstalk between Heme Oxygenase-1 and Iron Metabolism in Macrophages: Implications for the Modulation of Inflammation and Immunity. <i>Antioxidants</i> , 2022, 11, 861.	2.2	10
664	Apigenin attenuates molecular, biochemical, and histopathological changes associated with renal impairments induced by gentamicin exposure in rats. <i>Environmental Science and Pollution Research</i> , 2022, 29, 65276-65288.	2.7	8
665	Sputum Metabolites Associated with Nontuberculous Mycobacterial Infection in Cystic Fibrosis. <i>MSphere</i> , 2022, 7, e0010422.	1.3	2
666	<i>Mycobacterium tuberculosis</i> Induces Irg1 in Murine Macrophages by a Pathway Involving Both TLR-2 and STING/IFNAR Signaling and Requiring Bacterial Phagocytosis. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, 862582.	1.8	22
667	Overabundance of <i>Veillonella parvula</i> promotes intestinal inflammation by activating macrophages via LPS-TLR4 pathway. <i>Cell Death Discovery</i> , 2022, 8, 251.	2.0	22
668	Cardiovascular effects of traffic-related air pollution: A multi-omics analysis from a randomized, crossover trial. <i>Journal of Hazardous Materials</i> , 2022, 435, 129031.	6.5	17
669	d-2-Hydroxyglutarate is an anti-inflammatory immunometabolite that accumulates in macrophages after TLR4 activation. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2022, 1868, 166427.	1.8	19
670	Immunometabolism and the modulation of immune responses and host defense: A role for methylglyoxal?. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2022, 1868, 166425.	1.8	5
671	A potent PGK1 antagonist reveals PGK1 regulates the production of IL-1 β and IL-6. <i>Acta Pharmaceutica Sinica B</i> , 2022, 12, 4180-4192.	5.7	9
673	Metabolites: Fuelling the Immune Response. <i>Clinical and Experimental Immunology</i> , 2022, , .	1.1	1
674	Editorial: The Roles of Mitochondria in Immunity. <i>Frontiers in Immunology</i> , 2022, 13, .	2.2	2
675	Activation of the transcription factor NRF2 mediates the anti-inflammatory properties of a subset of over-the-counter and prescription NSAIDs. <i>Immunity</i> , 2022, 55, 1082-1095.e5.	6.6	21
677	Thiol modification and signaling by biological electrophiles. , 2022, , 177-196.		0
678	Immunomodulatory properties of mesenchymal stromal/stem cells: The link with metabolism. <i>Journal of Advanced Research</i> , 2023, 45, 15-29.	4.4	15
679	Four-Octyl itaconate ameliorates periodontal destruction via Nrf2-dependent antioxidant system. <i>International Journal of Oral Science</i> , 2022, 14, .	3.6	21
680	Mesaconate is synthesized from itaconate and exerts immunomodulatory effects in macrophages. <i>Nature Metabolism</i> , 2022, 4, 524-533.	5.1	32

#	ARTICLE	IF	CITATIONS
681	Itaconate is a lysosomal inducer that promotes antibacterial innate immunity. <i>Molecular Cell</i> , 2022, 82, 2844-2857.e10.	4.5	55
682	Induction of autophagy-dependent ferroptosis to eliminate drug-tolerant human retinoblastoma cells. <i>Cell Death and Disease</i> , 2022, 13, .	2.7	29
683	The itaconate family of immunomodulators grows. <i>Nature Metabolism</i> , 2022, 4, 499-500.	5.1	4
684	Citraconate inhibits ACOD1 (IRG1) catalysis, reduces interferon responses and oxidative stress, and modulates inflammation and cell metabolism. <i>Nature Metabolism</i> , 2022, 4, 534-546.	5.1	48
685	Sesquiterpene lactones-rich fraction from <i>Aucklandia lappa</i> Decne. alleviates dextran sulfate sodium induced ulcerative colitis through co-regulating MAPK and Nrf2/Hmox-1 signaling pathway. <i>Journal of Ethnopharmacology</i> , 2022, 295, 115401.	2.0	13
687	Research Progress on the Mechanism of Itaconate Regulating Macrophage Immunometabolism. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	6
688	Cell deaths: Involvement in the pathogenesis and intervention therapy of COVID-19. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, .	7.1	31
689	Antioxidant Therapy in Cancer: Rationale and Progress. <i>Antioxidants</i> , 2022, 11, 1128.	2.2	41
690	Protective effects of IRG1/itaconate on acute colitis through the inhibition of gasdermins-mediated pyroptosis and inflammation response. <i>Genes and Diseases</i> , 2023, 10, 1552-1563.	1.5	5
691	GM-CSF suppresses antioxidant signaling and drives IL-1 β secretion through NRF2 downregulation. <i>EMBO Reports</i> , 2022, 23, .	2.0	4
692	Nicotinamide Mononucleotide Administration Restores Redox Homeostasis via the Sirt3-Nrf2 Axis and Protects Aged Mice from Oxidative Stress-Induced Liver Injury. <i>Journal of Proteome Research</i> , 2022, 21, 1759-1770.	1.8	7
693	Anti-Inflammatory Metabolites in the Pathogenesis of Bacterial Infection. <i>Frontiers in Cellular and Infection Microbiology</i> , 0, 12, .	1.8	8
694	The transcription factor RFX5 coordinates antigen-presenting function and resistance to nutrient stress in synovial macrophages. <i>Nature Metabolism</i> , 2022, 4, 759-774.	5.1	39
695	Mitochondrial Dysfunction and Oxidative Stress in Rheumatoid Arthritis. <i>Antioxidants</i> , 2022, 11, 1151.	2.2	22
697	The Regulation and Modification of GSDMD Signaling in Diseases. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	17
698	The STING1-MYD88 complex drives ACOD1/IRG1 expression and function in lethal innate immunity. <i>IScience</i> , 2022, 25, 104561.	1.9	12
699	Multifunctional hydrogel loaded with 4-octyl itaconate exerts antibacterial, antioxidant and angiogenic properties for diabetic wound repair. , 2022, 139, 212979.		7
700	Itaconate alleviates β 2-microglobulin-induced cognitive impairment by enhancing the hippocampal amino- β -carboxymuconate-semialdehyde-decarboxylase/picolinic acid pathway. <i>Biochemical Pharmacology</i> , 2022, 202, 115137.	2.0	2

#	ARTICLE	IF	CITATIONS
701	Inflammasome activation: from molecular mechanisms to autoinflammation. <i>Clinical and Translational Immunology</i> , 2022, 11, .	1.7	12
702	Metabolic requirement for macrophages. , 2022, , 49-66.		0
703	Glutamine Is Required for M1-like Polarization of Macrophages in Response to Mycobacterium tuberculosis Infection. <i>MBio</i> , 2022, 13, .	1.8	17
704	Four-octyl itaconate improves osteoarthritis by enhancing autophagy in chondrocytes via PI3K/AKT/mTOR signalling pathway inhibition. <i>Communications Biology</i> , 2022, 5, .	2.0	17
705	The NOTCH4-GATA4-IRG1 axis as a novel target in early-onset colorectal cancer. <i>Cytokine and Growth Factor Reviews</i> , 2022, 67, 25-34.	3.2	10
706	Reprogramming Macrophage Metabolism and its Effect on NLRP3 Inflammasome Activation in Sepsis. <i>Frontiers in Molecular Biosciences</i> , 0, 9, .	1.6	6
707	Itaconate Suppresses Formation of Neutrophil Extracellular Traps (NETs): Involvement of Hypoxia-Inducible Factor 1 α (Hif-1 α) and Heme Oxygenase (HO-1). <i>Frontiers in Immunology</i> , 0, 13, .	2.2	7
708	A Nucleophilic Chemical Probe Targeting Electrophilic Functional Groups in an Untargeted Way to Explore Cysteine Modulators in Natural Products. <i>ACS Chemical Biology</i> , 2022, 17, 1685-1690.	1.6	0
709	Integrative understanding of immune-metabolic interaction. <i>BMB Reports</i> , 2022, 55, 259-266.	1.1	1
711	Microbial Metabolite 3-Indolepropionic Acid Mediates Immunosuppression. <i>Metabolites</i> , 2022, 12, 645.	1.3	5
712	Breathe In, Breathe Out: Metabolic Regulation of Lung Macrophages in Host Defense Against Bacterial Infection. <i>Frontiers in Cellular and Infection Microbiology</i> , 0, 12, .	1.8	3
713	Biology of macrophage fate decision: Implication in inflammatory disorders. <i>Cell Biology International</i> , 2022, 46, 1539-1556.	1.4	7
714	Keap1 moderates the transcription of virus induced genes through α -GALP and NF κ B p50 recruitment. <i>Immunology</i> , 0, , .	2.0	3
715	Plasma Levels of Acyl-Carnitines and Carboxylic Acids Correlate With Cardiovascular and Kidney Function in Subjects With Sick Cell Trait. <i>Frontiers in Physiology</i> , 0, 13, .	1.3	10
716	Modulation of the Itaconate Pathway Attenuates Murine Lupus. <i>Arthritis and Rheumatology</i> , 2022, 74, 1971-1983.	2.9	9
717	New Avenues of Heme Synthesis Regulation. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7467.	1.8	7
718	Inhibition of Glycolysis Impairs Retinoic Acid-Inducible Gene α -Mediated Antiviral Responses in Primary Human Dendritic Cells. <i>Frontiers in Cellular and Infection Microbiology</i> , 0, 12, .	1.8	4
719	Elucidating tumour-associated microglia/macrophage diversity along glioblastoma progression and under <i>ACOD1</i> deficiency. <i>Molecular Oncology</i> , 2022, 16, 3167-3191.	2.1	9

#	ARTICLE	IF	CITATIONS
720	REGLIV: Molecular regulation data of diverse living systems facilitating current multiomics research. <i>Computers in Biology and Medicine</i> , 2022, 148, 105825.	3.9	10
721	ISG15 deficiency features a complex cellular phenotype that responds to treatment with itaconate and derivatives. <i>Clinical and Translational Medicine</i> , 2022, 12, .	1.7	20
722	4-Octyl itaconate suppresses the osteogenic response in aortic valvular interstitial cells via the Nrf2 pathway and alleviates aortic stenosis in mice with direct wire injury. <i>Free Radical Biology and Medicine</i> , 2022, 188, 404-418.	1.3	10
723	Electrophile versus oxidant modification of cysteine residues: Kinetics as a key driver of protein modification. <i>Archives of Biochemistry and Biophysics</i> , 2022, 727, 109344.	1.4	10
724	Role of succinic acid in the regulation of sepsis. <i>International Immunopharmacology</i> , 2022, 110, 109065.	1.7	8
725	The role of microglia immunometabolism in neurodegeneration: Focus on molecular determinants and metabolic intermediates of metabolic reprogramming. <i>Biomedicine and Pharmacotherapy</i> , 2022, 153, 113412.	2.5	12
726	Dimethyl Itaconate Attenuates CFA-Induced Inflammatory Pain via the NLRP3/ IL-1 β Signaling Pathway. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	2
727	TFEB induces mitochondrial itaconate synthesis to suppress bacterial growth in macrophages. <i>Nature Metabolism</i> , 2022, 4, 856-866.	5.1	35
728	Macrophage Polarization and Reprogramming in Acute Inflammation: A Redox Perspective. <i>Antioxidants</i> , 2022, 11, 1394.	2.2	52
729	Reprogramming Metabolism of Macrophages as a Target for Kidney Dysfunction Treatment in Autoimmune Diseases. <i>International Journal of Molecular Sciences</i> , 2022, 23, 8024.	1.8	3
730	Antiaging function of Chinese pond turtle (<i>Chinemys reevesii</i>) peptide through activation of the Nrf2/Keap1 signaling pathway and its structure-activity relationship. <i>Frontiers in Nutrition</i> , 0, 9, .	1.6	8
731	Dimethyl itaconate reprograms neurotoxic to neuroprotective primary astrocytes through the regulation of NLRP3 inflammasome and NRF2/HO-1 pathways. <i>Molecular and Cellular Neurosciences</i> , 2022, 122, 103758.	1.0	9
732	Engineered 4-OI-loaded exosomes guide M/Ms glycolysis against ischemic stroke in aged rats. <i>Materials and Design</i> , 2022, 221, 110943.	3.3	1
733	Itaconic acid facilitates inflammation abatement and alleviates liver ischemia-reperfusion injury by inhibiting NF- κ B/NLRP3/caspase-1 inflammasome axis. <i>Annals of Translational Medicine</i> , 2022, 10, 861-861.	0.7	4
734	Iron Deficiency and Overload Modulate the Inflammatory Responses and Metabolism of Alveolar Macrophages. <i>Nutrients</i> , 2022, 14, 3100.	1.7	5
735	Aging Relevant Metabolite Itaconate Inhibits Inflammatory Bone Loss. <i>Frontiers in Endocrinology</i> , 0, 13, .	1.5	4
736	Aconitate decarboxylase 1 regulates glucose homeostasis and obesity in mice. <i>Obesity</i> , 2022, 30, 1818-1830.	1.5	12
737	The IRC1/itaconate/TFEB axis: A new weapon in macrophage antibacterial defense. <i>Molecular Cell</i> , 2022, 82, 2732-2734.	4.5	2

#	ARTICLE	IF	CITATIONS
738	Nrf2 signaling activation by a small molecule activator compound 16 inhibits hydrogen peroxide-induced oxidative injury and death in osteoblasts. <i>Cell Death Discovery</i> , 2022, 8, .	2.0	2
739	Nrf2-mediated anti-inflammatory polarization of macrophages as therapeutic targets for osteoarthritis. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	50
740	Aconitate decarboxylase 1 is a mediator of polymicrobial sepsis. <i>Science Translational Medicine</i> , 2022, 14, .	5.8	20
741	Itaconate for lupus remission: the next therapeutic frontier? Comment on the article by Blanco et al. <i>Arthritis and Rheumatology</i> , 2023, 75, 143-143.	2.9	0
742	Succinate and inosine coordinate innate immune response to bacterial infection. <i>PLoS Pathogens</i> , 2022, 18, e1010796.	2.1	17
743	Novel insights into the regulation of cellular catabolic metabolism in macrophages through nuclear receptors. <i>FEBS Letters</i> , 2022, 596, 2617-2629.	1.3	1
745	Dimethyl Itaconate Reduces Cognitive Impairment and Neuroinflammation in APP ^{swe} /PS1 ^{E9} Transgenic Mouse Model of Alzheimer's Disease. <i>NeuroMolecular Medicine</i> , 2023, 25, 179-192.	1.8	7
746	Harsh intertidal environment enhances metabolism and immunity in oyster (<i>Crassostrea gigas</i>) spat. <i>Marine Environmental Research</i> , 2022, 180, 105709.	1.1	4
747	Pros and cons of NRF2 activation as adjunctive therapy in rheumatoid arthritis. <i>Free Radical Biology and Medicine</i> , 2022, 190, 179-201.	1.3	6
748	A tyrosine catabolic intermediate 4-hydroxyphenylpyruate attenuates murine endotoxic shock by blocking NLRP3 inflammasome activation. <i>International Immunopharmacology</i> , 2022, 111, 109098.	1.7	3
749	Dimethyl itaconic acid improves viability and steroidogenesis and suppresses cytokine production in LPS-treated bovine ovarian granulosa cells by regulating TLR4/nfκ ² , NLRP3, JNK signaling pathways. <i>Research in Veterinary Science</i> , 2022, 152, 89-98.	0.9	1
750	Regulation of innate immunity by Nrf2. <i>Current Opinion in Immunology</i> , 2022, 78, 102247.	2.4	24
751	Caspase-8 mutants activate Nrf2 via phosphorylating SQSTM1 to protect against oxidative stress in esophageal squamous cell carcinoma. <i>Free Radical Biology and Medicine</i> , 2022, 192, 51-62.	1.3	5
752	Itaconate controls its own synthesis via feedback-inhibition of reverse TCA cycle activity at IDH2. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2022, 1868, 166530.	1.8	10
753	Screening and analysis of immune-related genes of <i>Aedes aegypti</i> infected with DENV2. <i>Acta Tropica</i> , 2022, 236, 106698.	0.9	2
754	The Role of Nrf2 in Pulmonary Fibrosis: Molecular Mechanisms and Treatment Approaches. <i>Antioxidants</i> , 2022, 11, 1685.	2.2	12
755	IL-37 expression reduces acute and chronic neuroinflammation and rescues cognitive impairment in an Alzheimer's disease mouse model. <i>ELife</i> , 0, 11, .	2.8	6
756	Redox regulation of the immune response. , 2022, 19, 1079-1101.		96

#	ARTICLE	IF	CITATIONS
757	Induction of a colitogenic phenotype in Th1-like cells depends on interleukin-23 receptor signaling. <i>Immunity</i> , 2022, 55, 1663-1679.e6.	6.6	10
758	Immunometabolism Dysfunction in the Pathophysiology and Treatment of Rheumatoid Arthritis. <i>Current Medicinal Chemistry</i> , 2023, 30, 3119-3136.	1.2	1
759	Icariside II preconditioning evokes robust neuroprotection against ischaemic stroke, by targeting Nrf2 and the OXPHOS/NF- κ B/ferroptosis pathway. <i>British Journal of Pharmacology</i> , 2023, 180, 308-329.	2.7	27
760	RNA-seq transcriptomic analysis of 4-octyl itaconate repressing myogenic differentiation. <i>Archives of Biochemistry and Biophysics</i> , 2022, 731, 109420.	1.4	1
761	4-OI Protects MIN6 Cells from Oxidative Stress Injury by Reducing LDHA-Mediated ROS Generation. <i>Biomolecules</i> , 2022, 12, 1236.	1.8	4
762	The KEAP1-NRF2 System and Esophageal Cancer. <i>Cancers</i> , 2022, 14, 4702.	1.7	11
763	Itaconate Attenuates Neuroinflammation and Exerts Dopamine Neuroprotection in Parkinson's Disease through Inhibiting NLRP3 Inflammasome. <i>Brain Sciences</i> , 2022, 12, 1255.	1.1	8
764	Emerging trends and hot spots of NLRP3 inflammasome in neurological diseases: A bibliometric analysis. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	4
765	How location and cellular signaling combine to activate the NLRP3 inflammasome. , 2022, 19, 1201-1214.		50
766	Tea as a natural gift for discovering antiviral candidates. , 2022, 2, 211-220.		4
769	The role of neutrophils in trained immunity. <i>Immunological Reviews</i> , 2023, 314, 142-157.	2.8	20
770	Deficiency of IRG1/itaconate aggravates endotoxemia-induced acute lung injury by inhibiting autophagy in mice. <i>Experimental Animals</i> , 2022, , .	0.7	2
771	4-Octyl itaconate regulates immune balance by activating Nrf2 and negatively regulating PD-L1 in a mouse model of sepsis. <i>International Journal of Biological Sciences</i> , 2022, 18, 6189-6209.	2.6	11
772	Polarization and β -Glucan Reprogram Immunomodulatory Metabolism in Human Macrophages and Ex Vivo in Human Lung Cancer Tissues. <i>Journal of Immunology</i> , 2022, 209, 1674-1690.	0.4	2
773	5-HT is an oxidation-responsive activator of Nrf2 ameliorating colitis in rats. <i>Journal of Pineal Research</i> , 2023, 74, .	3.4	4
774	Sanguinarine protects against indomethacin-induced small intestine injury in rats by regulating the Nrf2/NF- κ B pathways. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	5
775	Role of metabolic reprogramming in pro-inflammatory cytokine secretion from LPS or silica-activated macrophages. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	32
776	IRG1/itaconate increases IL-10 release to alleviate mechanical and thermal hypersensitivity in mice after nerve injury. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	7

#	ARTICLE	IF	CITATIONS
777	Metabolic Syndrome Programming and Reprogramming: Mechanistic Aspects of Oxidative Stress. <i>Antioxidants</i> , 2022, 11, 2108.	2.2	7
779	Activation of Nrf2 signaling by 4-octyl itaconate attenuates the cartilaginous endplate degeneration by inhibiting E3 ubiquitin ligase ZNF598. <i>Osteoarthritis and Cartilage</i> , 2023, 31, 213-227.	0.6	3
781	Development of Noncovalent Small-Molecule Keap1-Nrf2 Inhibitors by Fragment-Based Drug Discovery. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 14481-14526.	2.9	13
782	OPA1 drives macrophage metabolism and functional commitment via p65 signaling. <i>Cell Death and Differentiation</i> , 2023, 30, 742-752.	5.0	7
783	Proinflammatory Innate Cytokines and Distinct Metabolomic Signatures Shape the T Cell Response in Active COVID-19. <i>Vaccines</i> , 2022, 10, 1762.	2.1	7
784	Liposome cocktail activator modulates hepatocytes and remodels the microenvironment to mitigate acute liver failure. <i>Asian Journal of Pharmaceutical Sciences</i> , 2022, 17, 867-879.	4.3	3
785	Innate metabolic responses against viral infections. <i>Nature Metabolism</i> , 2022, 4, 1245-1259.	5.1	28
786	Mechanisms underlying the therapeutic effects of 4-octyl itaconate in treating sepsis based on network pharmacology and molecular docking. <i>Frontiers in Genetics</i> , 0, 13, .	1.1	1
787	Dimethyl itaconate inhibits LPS-induced inflammatory release and apoptosis in alveolar type II epithelial and bronchial epithelial cells by activating pulmonary surfactant proteins A and D. <i>Allergologia Et Immunopathologia</i> , 2022, 50, 176-186.	1.0	2
788	Insights into symbiotic interactions from metatranscriptome analysis of deep-sea mussel <i>Gigantidas platifrons</i> under long-term laboratory maintenance. <i>Molecular Ecology</i> , 2023, 32, 444-459.	2.0	5
789	Itaconate derivative 4-OI inhibits PRRSV proliferation and associated inflammatory response. <i>Virology</i> , 2022, 577, 84-90.	1.1	1
790	Naringenin attenuates inflammation, apoptosis, and ferroptosis in silver nanoparticle-induced lung injury through a mechanism associated with Nrf2/HO-1 axis: In vitro and in vivo studies. <i>Life Sciences</i> , 2022, 311, 121127.	2.0	17
791	Indoleamine 2,3-dioxygenase mediates the therapeutic effects of adipose-derived stromal/stem cells in experimental periodontitis by modulating macrophages through the kynurenine-AhR-NRF2 pathway. <i>Molecular Metabolism</i> , 2022, 66, 101617.	3.0	12
792	A genetically encoded fluorescent biosensor for detecting itaconate with subcellular resolution in living macrophages. <i>Nature Communications</i> , 2022, 13, .	5.8	8
793	Gallic Acid Ameliorates <i>Aspergillus Fumigatus</i> Keratitis Through Reducing Fungal Load and Suppressing the Inflammatory Response. , 2022, 63, 12.		3
794	Secreted immune metabolites that mediate immune cell communication and function. <i>Trends in Immunology</i> , 2022, 43, 990-1005.	2.9	6
795	Sulforaphane Reduces SAMHD1 Phosphorylation To Protect Macrophages from HIV-1 Infection. <i>Journal of Virology</i> , 2022, 96, .	1.5	4
796	MsrB1-regulated GAPDH oxidation plays programmatic roles in shaping metabolic and inflammatory signatures during macrophage activation. <i>Cell Reports</i> , 2022, 41, 111598.	2.9	3

#	ARTICLE	IF	CITATIONS
797	Crosstalk between glucose metabolism, lactate production and immune response modulation. Cytokine and Growth Factor Reviews, 2022, 68, 81-92.	3.2	55
798	Coal Discards and Sewage Sludge Derived-Hydrochar for HIV Antiretroviral Pollutant Removal from Wastewater and Spent Adsorption Residue Evaluation for Sustainable Carbon Management. Sustainability, 2022, 14, 15113.	1.6	2
799	The NLRP3 inflammasome: regulation by metabolic signals. Trends in Immunology, 2022, 43, 978-989.	2.9	20
800	Myeloid-derived itaconate suppresses cytotoxic CD8+ T cells and promotes tumour growth. Nature Metabolism, 2022, 4, 1660-1673.	5.1	39
801	Maternal Calorie Restriction Induces a Transcriptional Cytoprotective Response in Embryonic Liver Partially Dependent on Nrf2. Antioxidants, 2022, 11, 2274.	2.2	2
802	ARD1 stabilizes NRF2 through direct interaction and promotes colon cancer progression. Life Sciences, 2023, 313, 121217.	2.0	3
803	Itaconate promotes a wound resolving phenotype in pro-inflammatory macrophages. Redox Biology, 2023, 59, 102591.	3.9	9
804	Identification of galectin-1 and other cellular targets of alpha,beta-unsaturated carbonyl compounds, including dimethylfumarate, by use of click-chemistry probes. Redox Biology, 2023, 59, 102560.	3.9	1
805	Two for the price of one: itaconate and its derivatives as an anti-infective and anti-inflammatory immunometabolite. Current Opinion in Immunology, 2023, 80, 102268.	2.4	7
806	Effects and mechanisms of Xiaochaihu Tang against liver fibrosis: An integration of network pharmacology, molecular docking and experimental validation. Journal of Ethnopharmacology, 2023, 303, 116053.	2.0	7
807	Cognitive Impairment in Diabetes Mellitus and Its Management by Transcription Factor Nrf2-Mediated Antioxidant Defense System. Biochemistry, 0, , .	0.8	0
808	The role of immunomodulatory metabolites in shaping the inflammatory response of macrophages. BMB Reports, 2022, 55, 519-527.	1.1	1
809	Protein targeting by the itaconate family in immunity and inflammation. Biochemical Journal, 2022, 479, 2499-2510.	1.7	10
810	The mechanisms and cross-protection of trained innate immunity. Virology Journal, 2022, 19, .	1.4	3
811	The signaling pathways and therapeutic potential of itaconate to alleviate inflammation and oxidative stress in inflammatory diseases. Redox Biology, 2022, 58, 102553.	3.9	11
812	The injured sciatic nerve atlas (iSNAT), insights into the cellular and molecular basis of neural tissue degeneration and regeneration. ELife, 0, 11, .	2.8	11
813	Progesterin Resistance and Corresponding Management of Abnormal Endometrial Hyperplasia and Endometrial Carcinoma. Cancers, 2022, 14, 6210.	1.7	6
814	NRF2/Itaconate Axis Regulates Metabolism and Inflammatory Properties of T Cells in Children with JIA. Antioxidants, 2022, 11, 2426.	2.2	3

#	ARTICLE	IF	CITATIONS
815	A metabolite attenuates neuroinflammation, synaptic loss and cognitive deficits induced by chronic infection of <i>Toxoplasma gondii</i> . <i>Frontiers in Immunology</i> , 0, 13, .	2.2	6
816	Drug discovery inspired by bioactive small molecules from nature. <i>Animal Cells and Systems</i> , 2022, 26, 254-265.	0.8	8
817	Topical SCD-153, a 4-methyl itaconate prodrug, for the treatment of alopecia areata. , 2023, 2, .		1
818	Macrophages inhibit <i>Coxiella burnetii</i> by the <i>ACOD1</i> itaconate pathway for containment of Q fever. <i>EMBO Molecular Medicine</i> , 2023, 15, .	3.3	9
819	SHORT-TERM INFLAMMATORY BIOMARKER PROFILES ARE ASSOCIATED WITH DEFICIENT MITOCHONDRIAL BIOENERGETICS IN LYMPHOCYTES OF SEPTIC SHOCK PATIENTS—A PROSPECTIVE COHORT STUDY. <i>Shock</i> , 2023, 59, 288-293.	1.0	3
821	Inflammation driven metabolic regulation and adaptation in macrophages. <i>Clinical Immunology</i> , 2023, 246, 109216.	1.4	7
822	Characterization and engineering of branched short-chain dicarboxylate metabolism in <i>Pseudomonas</i> reveals resistance to fungal 2-hydroxyparaconate. <i>Metabolic Engineering</i> , 2023, 75, 205-216.	3.6	6
823	Krebs cycle enzymes for targeted therapeutics and immunotherapy for anti-leishmanial drug development using: Pathways, potential targets, and future perspectives. <i>Life Sciences</i> , 2022, , 121314.	2.0	0
824	Lipoxin A4 attenuates MSU-crystal-induced NLRP3 inflammasome activation through suppressing Nrf2 thereby increasing TXNRD2. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	5
825	The Immunomodulator Dimethyl Itaconate Inhibits Several Key Steps of Angiogenesis in Cultured Endothelial Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 15972.	1.8	1
826	Oxygen-carrying sequential preservation mitigates liver grafts ischemia-reperfusion injury. <i>IScience</i> , 2023, 26, 105858.	1.9	0
827	Regulation and function of the mammalian tricarboxylic acid cycle. <i>Journal of Biological Chemistry</i> , 2023, 299, 102838.	1.6	53
828	Advances in NURR1-Regulated Neuroinflammation Associated with Parkinson's Disease. <i>International Journal of Molecular Sciences</i> , 2022, 23, 16184.	1.8	7
829	An integrated strategy to study the combination mechanisms of <i>Bupleurum chinense</i> DC and <i>Paeonia lactiflora</i> Pall for treating depression based on correlation analysis between serum chemical components profiles and endogenous metabolites profiles. <i>Journal of Ethnopharmacology</i> , 2023, 305, 116068.	2.0	5
830	Involvement of Nitric Oxide in Protecting against Radical Species and Autoregulation of M1-Polarized Macrophages through Metabolic Remodeling. <i>Molecules</i> , 2023, 28, 814.	1.7	6
831	Recent Advances on the Production of Itaconic Acid via the Fermentation and Metabolic Engineering. <i>Fermentation</i> , 2023, 9, 71.	1.4	4
832	Immunometabolism and microbial metabolites at the gut barrier: Lessons for therapeutic intervention in inflammatory bowel disease. <i>Mucosal Immunology</i> , 2023, 16, 72-85.	2.7	5
833	Study on the life maintenance mechanism of <i>Eisenia fetida</i> under low-density polyethylene stress: Based on path analysis and canonical correlation analysis. <i>Ecotoxicology and Environmental Safety</i> , 2023, 250, 114500.	2.9	3

#	ARTICLE	IF	CITATIONS
834	Innate sensing and cellular metabolism: role in fine tuning antiviral immune responses. <i>Journal of Leukocyte Biology</i> , 2023, 113, 164-190.	1.5	3
835	AMPK integrates metabolite and kinase-based immunometabolic control in macrophages. <i>Molecular Metabolism</i> , 2023, 68, 101661.	3.0	6
836	Does Nrf2 Play a Role of a Master Regulator of Mammalian Aging?. <i>Biochemistry (Moscow)</i> , 2022, 87, 1465-1476.	0.7	3
837	Construction of cell factory through combinatorial metabolic engineering for efficient production of itaconic acid. <i>Microbial Cell Factories</i> , 2022, 21, .	1.9	4
838	Cellular metabolism and mitochondrial dysfunction in chronic obstructive pulmonary disease. <i>Pulmonologiya</i> , 0, .	0.2	0
839	The lncRNA LUCAT1 is elevated in inflammatory disease and restrains inflammation by regulating the splicing and stability of NR4A2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, .	3.3	14
840	The versatile utility of cysteine as a target for cancer treatment. <i>Frontiers in Oncology</i> , 0, 12, .	1.3	4
841	Bovine blood derived macrophages are unable to control <i>Coxiella burnetii</i> replication under hypoxic conditions. <i>Frontiers in Immunology</i> , 0, 14, .	2.2	2
843	Cepharanthine Alleviates DSS-Induced Ulcerative Colitis via Regulating Aconitate Decarboxylase 1 Expression and Macrophage Infiltration. <i>Molecules</i> , 2023, 28, 1060.	1.7	3
844	Injectable hydrogel loaded with 4-octyl itaconate enhances cartilage regeneration by regulating macrophage polarization. <i>Biomaterials Science</i> , 2023, 11, 2445-2460.	2.6	9
845	The KEAP1-NRF2 system and neurodegenerative diseases. <i>Antioxidants and Redox Signaling</i> , 0, .	2.5	3
846	Itaconate Suppresses the Activation of Mitochondrial NLRP3 Inflammasome and Oxidative Stress in Allergic Airway Inflammation. <i>Antioxidants</i> , 2023, 12, 489.	2.2	4
847	Itaconate ameliorates autoimmunity by modulating T cell imbalance via metabolic and epigenetic reprogramming. <i>Nature Communications</i> , 2023, 14, .	5.8	26
848	Quantitative Chemoproteomic Methods for Reactive Cysteinome Profiling. <i>Israel Journal of Chemistry</i> , 2023, 63, .	1.0	1
849	Intracellular Delivery of Itaconate by Metal-Organic Framework-Anchored Hydrogel Microspheres for Osteoarthritis Therapy. <i>Pharmaceutics</i> , 2023, 15, 724.	2.0	5
850	4-octyl itaconate as a metabolite derivative inhibits inflammation via alkylation of STING. <i>Cell Reports</i> , 2023, 42, 112145.	2.9	12
851	Effects of 4-octyl itaconate and dimethyl fumarate on growth performance, intestinal microbiota, intestinal and hepatopancreas health of juvenile gibel carp (<i>Carassius gibelio</i>). <i>Aquaculture</i> , 2023, 569, 739376.	1.7	1
852	The role of metabolic reprogramming of tumor-associated macrophages in shaping the immunosuppressive tumor microenvironment. <i>Biomedicine and Pharmacotherapy</i> , 2023, 161, 114504.	2.5	5

#	ARTICLE	IF	CITATIONS
853	Metabolomic profiling reveals bacterial metabolic adaptation strategies and new metabolites. <i>Current Opinion in Chemical Biology</i> , 2023, 74, 102287.	2.8	4
854	Immunometabolism at the basis of health and disease; an editorial. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2023, 1869, 166715.	1.8	1
855	“Spongy skin” as a robust strategy to deliver 4-octyl itaconate for conducting dual-regulation against in-stent restenosis. <i>Biomaterials</i> , 2023, 296, 122069.	5.7	2
856	4-Octyl itaconate inhibits aerobic glycolysis by targeting GAPDH to promote cuproptosis in colorectal cancer. <i>Biomedicine and Pharmacotherapy</i> , 2023, 159, 114301.	2.5	19
857	Immune response gene 1 deficiency aggravates high fat diet-induced nonalcoholic fatty liver disease via promotion of redox-sensitive AKT suppression. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2023, 1869, 166656.	1.8	2
858	<i>Staphylococcus aureus</i> stimulates neutrophil itaconate production that suppresses the oxidative burst. <i>Cell Reports</i> , 2023, 42, 112064.	2.9	23
859	Metabolic reprogramming by immune-responsive gene 1 up-regulation improves donor heart preservation and function. <i>Science Translational Medicine</i> , 2023, 15, .	5.8	9
860	O-GlcNAcylation of YTHDF2 promotes HBV-related hepatocellular carcinoma progression in an N6-methyladenosine-dependent manner. <i>Signal Transduction and Targeted Therapy</i> , 2023, 8, .	7.1	26
861	Proteotoxic stress-induced autophagy is regulated by the NRF2 pathway via extracellular vesicles. <i>Cell Stress and Chaperones</i> , 2023, 28, 167-175.	1.2	0
862	Increased fatty acid metabolism and decreased glycolysis are hallmarks of metabolic reprogramming within microglia in degenerating white matter during recovery from experimental stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2023, 43, 1099-1114.	2.4	6
863	Role of the Mitochondrial Permeability Transition in Bone Metabolism and Aging. <i>Journal of Bone and Mineral Research</i> , 2020, 38, 522-540.	3.1	2
864	4-Octyl itaconate treatment inhibits mitochondrial dysfunction and ER stress via stimulating SIRT1 expression in vitro and attenuates osteoarthritis process in murine DMM model in vivo. <i>Journal of Functional Foods</i> , 2023, 102, 105450.	1.6	0
865	Mitochondrial Cristae Morphology Reflecting Metabolism, Superoxide Formation, Redox Homeostasis, and Pathology. <i>Antioxidants and Redox Signaling</i> , 2023, 39, 635-683.	2.5	15
867	Activity-based Tools for Interrogating Host Biology During Infection. <i>Israel Journal of Chemistry</i> , 2023, 63, .	1.0	1
868	An updated patent review of Nrf2 activators (2020-present). <i>Expert Opinion on Therapeutic Patents</i> , 2023, 33, 29-49.	2.4	7
869	Dimethyl itaconate ameliorates cognitive impairment induced by a high-fat diet via the gut-brain axis in mice. <i>Microbiome</i> , 2023, 11, .	4.9	16
870	Mitochondrial dynamics in macrophages: divide to conquer or unite to survive?. <i>Biochemical Society Transactions</i> , 2023, 51, 41-56.	1.6	2
871	Depletion of creatine phosphagen energetics with a covalent creatine kinase inhibitor. <i>Nature Chemical Biology</i> , 2023, 19, 815-824.	3.9	12

#	ARTICLE	IF	CITATIONS
872	Analysis of the effects of <i>Rosa roxburghii</i> Tratt fruit polyphenols on immune function in mice through gut microbiota and metabolomics: An in vivo preclinical trial study. <i>Journal of Functional Foods</i> , 2023, 102, 105464.	1.6	4
873	Mapping the Metabolic Niche of Citrate Metabolism and SLC13A5. <i>Metabolites</i> , 2023, 13, 331.	1.3	2
874	Systemic Lupus Erythematosus Pathogenesis: Interferon and Beyond. <i>Annual Review of Immunology</i> , 2023, 41, 533-560.	9.5	28
875	APOE modulates microglial immunometabolism in response to age, amyloid pathology, and inflammatory challenge. <i>Cell Reports</i> , 2023, 42, 112196.	2.9	26
876	6-Formylindolo(3,2-b)carbazole Dampens Inflammation and Reduces Endotoxin-Induced Kidney Injury via Nrf2 Activation. <i>Chemical Research in Toxicology</i> , 2023, 36, 552-560.	1.7	0
878	The Impact of Krebs Cycle Intermediates on the Endocrine System and Immune System: A Comparison. <i>Endocrines</i> , 2023, 4, 179-193.	0.4	1
879	Macrophage fumarate hydratase restrains mtRNA-mediated interferon production. <i>Nature</i> , 2023, 615, 490-498.	13.7	44
880	Targeting immunometabolism against acute lung injury. <i>Clinical Immunology</i> , 2023, 249, 109289.	1.4	10
882	Dimethyl Itaconate Inhibits Melanogenesis in B16F10 Cells. <i>Antioxidants</i> , 2023, 12, 692.	2.2	3
883	Regulation of the immune system by the insulin receptor in health and disease. <i>Frontiers in Endocrinology</i> , 0, 14, .	1.5	7
884	The immunometabolite itaconate stimulates OXGR1 to promote mucociliary clearance during the pulmonary innate immune response. <i>Journal of Clinical Investigation</i> , 2023, 133, .	3.9	16
885	Metabolomics meets systems immunology. <i>EMBO Reports</i> , 2023, 24, .	2.0	10
886	4-Octyl itaconate improves the viability of D66H cells by regulating the KEAP1-NRF2-GCLC/HO-1 pathway. <i>Journal of Cellular and Molecular Medicine</i> , 2023, 27, 962-975.	1.6	0
887	4-Octyl itaconate attenuates glycemic deterioration by regulating macrophage polarization in mouse models of type 1 diabetes. <i>Molecular Medicine</i> , 2023, 29, .	1.9	4
888	Metabolic sensing and control in mitochondria. <i>Molecular Cell</i> , 2023, 83, 877-889.	4.5	8
889	The KEAP1-NRF2 System and Neurodegenerative Diseases. <i>Antioxidants and Redox Signaling</i> , 2023, 38, 974-988.	2.5	17
890	Nrf2 in TIME: The Emerging Role of Nuclear Factor Erythroid 2-Related Factor 2 in the Tumor Immune Microenvironment. <i>Molecules and Cells</i> , 2023, 46, 142-152.	1.0	5
891	Untangling Cellular Host-Pathogen Encounters at Infection Bottlenecks. <i>Infection and Immunity</i> , 2023, 91, .	1.0	2

#	ARTICLE	IF	CITATIONS
892	The role of immunometabolism in macrophage polarization and its impact on acute lung injury/acute respiratory distress syndrome. <i>Frontiers in Immunology</i> , 0, 14, .	2.2	5
893	The Role of Post-Translational Modifications in Regulation of NLRP3 Inflammasome Activation. <i>International Journal of Molecular Sciences</i> , 2023, 24, 6126.	1.8	6
894	How <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i> Hijack the Host Immune Response in the Context of Cystic Fibrosis. <i>International Journal of Molecular Sciences</i> , 2023, 24, 6609.	1.8	2
895	Dimethyl itaconate is effective in host-directed antimicrobial responses against mycobacterial infections through multifaceted innate immune pathways. <i>Cell and Bioscience</i> , 2023, 13, .	2.1	5
896	Regulation of Cell Proliferation and Nrf2-Mediated Antioxidant Defense: Conservation of Keap1 Cysteines and Nrf2 Binding Site in the Context of the Evolution of KLHL Family. <i>Life</i> , 2023, 13, 1045.	1.1	5
898	Dietary supplementation of dimethyl itaconate protects against chronic heat stress-induced growth performance impairment and lipid metabolism disorder in broiler chickens. <i>Journal of Animal Science</i> , 2023, 101, .	0.2	3
909	Itaconate: A Potent Macrophage Immunomodulator. <i>Inflammation</i> , 0, , .	1.7	2
914	Metabolite signaling in the heart. , 2023, 2, 504-516.		2
926	Itaconate trims the fat. <i>Nature Metabolism</i> , 2023, 5, 915-916.	5.1	0
954	Mitochondrial Regulation of Macrophages in Innate Immunity and Diverse Roles of Macrophages During Cochlear Inflammation. <i>Neuroscience Bulletin</i> , 2024, 40, 255-267.	1.5	0
995	Oxidative stress and the role of redox signalling in chronic kidney disease. <i>Nature Reviews Nephrology</i> , 2024, 20, 101-119.	4.1	2
1061	Metabolism Serves as a Bridge Between Cardiomyocytes and Immune Cells in Cardiovascular Diseases. <i>Cardiovascular Drugs and Therapy</i> , 0, , .	1.3	0
1074	Evolution of the Major Components of Innate Immunity in Animals. <i>Journal of Molecular Evolution</i> , 2024, 92, 3-20.	0.8	0
1085	A break in mitochondrial endosymbiosis as a basis for inflammatory diseases. <i>Nature</i> , 2024, 626, 271-279.	13.7	0
1091	Molecular omics: a promising systems biology approach to unravel host-pathogen interactions. , 2024, , 81-102.		0