Loss-of-function mutations in MICU1 cause a brain and alterations in mitochondrial calcium signaling

Nature Genetics 46, 188-193 DOI: 10.1038/ng.2851

Citation Report

#	Article	IF	CITATIONS
1	Mitochondrial Calcium Uniporter MCU Supports Cytoplasmic Ca2+ Oscillations, Store-Operated Ca2+ Entry and Ca2+-Dependent Gene Expression in Response to Receptor Stimulation. PLoS ONE, 2014, 9, e101188.	2.5	85
2	The Challenge of Next Generation Sequencing in the Context of Neuromuscular Diseases. Journal of Neuromuscular Diseases, 2014, 1, 135-149.	2.6	25
3	ANO10 mutations cause ataxia and coenzyme Q10 deficiency. Journal of Neurology, 2014, 261, 2192-2198.	3.6	74
4	Dysregulation of calcium homeostasis in muscular dystrophies. Expert Reviews in Molecular Medicine, 2014, 16, e16.	3.9	79
5	Reliance of ER–mitochondrial calcium signaling on mitochondrial EF-hand Ca2+ binding proteins: Miros, MICUs, LETM1 and solute carriers. Current Opinion in Cell Biology, 2014, 29, 133-141.	5.4	42
6	Measuring Baseline Ca2+ Levels in Subcellular Compartments Using Genetically Engineered Fluorescent Indicators. Methods in Enzymology, 2014, 543, 47-72.	1.0	17
7	The uniporter: From newly identified parts to function. Biochemical and Biophysical Research Communications, 2014, 449, 370-372.	2.1	26
8	The elusive importance of being a mitochondrial Ca2+ uniporter. Cell Calcium, 2014, 55, 139-145.	2.4	84
9	Regulation of the mitochondrial Ca2+ uniporter by MICU1 and MICU2. Biochemical and Biophysical Research Communications, 2014, 449, 377-383.	2.1	26
10	Mitochondrial Channels: Ion Fluxes and More. Physiological Reviews, 2014, 94, 519-608.	28.8	281
11	Molecular control of mitochondrial calcium uptake. Biochemical and Biophysical Research Communications, 2014, 449, 373-376.	2.1	27
12	The gatekeepers of mitochondrial calcium influx: <scp>MICU</scp> 1 and <scp>MICU</scp> 2. EMBO Reports, 2014, 15, 205-206.	4.5	34
13	Mitochondrial calcium transport in trypanosomes. Molecular and Biochemical Parasitology, 2014, 196, 108-116.	1.1	24
14	MICU1 and MICU2 Finely Tune the Mitochondrial Ca2+ Uniporter by Exerting Opposite Effects on MCU Activity. Molecular Cell, 2014, 53, 726-737.	9.7	441
15	An overview of neurological and neuromuscular signs in mitochondrial diseases. Revue Neurologique, 2014, 170, 323-338.	1.5	7
16	Calcium signaling as a mediator of cell energy demand and a trigger to cell death. Annals of the New York Academy of Sciences, 2015, 1350, 107-116.	3.8	88
18	<i><scp>MICU1</scp></i> mutation: a genetic cause for a type of neuromuscular disease in children. Clinical Genetics, 2015, 87, 327-328.	2.0	7
19	Ca ²⁺ signals regulate mitochondrial metabolism by stimulating CREB-mediated expression of the mitochondrial Ca ²⁺ uniporter gene <i>MCU</i> . Science Signaling, 2015, 8, ra23.	3.6	102

	CHATION	LEPURI	
#	Article	IF	Citations
20	Mitochondrial Ca2+ in neurodegenerative disorders. Pharmacological Research, 2015, 99, 377-381.	7.1	89
21	The Ins and Outs of Mitochondrial Calcium. Circulation Research, 2015, 116, 1810-1819.	4.5	214
22	Clinical massively parallel sequencing for the diagnosis of myopathies. Revue Neurologique, 2015, 171, 558-571.	1.5	11
23	Pathophysiology of mitochondrial disease causing epilepsy and status epilepticus. Epilepsy and Behavior, 2015, 49, 71-75.	1.7	56
24	What is the function of mitochondrial networks? A theoretical assessment of hypotheses and proposal for future research. BioEssays, 2015, 37, 687-700.	2.5	122
25	Life after the birth of the mitochondrial Na+/Ca2+ exchanger, NCLX. Science China Life Sciences, 2015, 58, 59-65.	4.9	15
26	Structure and function of the mitochondrial calcium uniporter complex. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 2006-2011.	4.1	154
27	The Mitochondrial Calcium Uniporter Controls Skeletal Muscle Trophism InÂVivo. Cell Reports, 2015, 10, 1269-1279.	6.4	170
28	The regulation of neuronal mitochondrial metabolism by calcium. Journal of Physiology, 2015, 593, 3447-3462.	2.9	130
29	The EF-Hand Ca ²⁺ Binding Protein MICU Choreographs Mitochondrial Ca ²⁺ Dynamics in Arabidopsis. Plant Cell, 2015, 27, 3190-3212.	6.6	103
30	Mitochondrial dysfunction and seizures: the neuronal energy crisis. Lancet Neurology, The, 2015, 14, 956-966.	10.2	176
31	The molecular era of the mitochondrial calcium uniporter. Nature Reviews Molecular Cell Biology, 2015, 16, 545-553.	37.0	280
32	Impaired expression of the mitochondrial calcium uniporter suppresses mast cell degranulation. Molecular and Cellular Biochemistry, 2015, 410, 215-221.	3.1	19
33	Organization of junctional sarcoplasmic reticulum proteins in skeletal muscle fibers. Journal of Muscle Research and Cell Motility, 2015, 36, 501-515.	2.0	40
34	The mitochondrial Ca2+ uniporter complex. Journal of Molecular and Cellular Cardiology, 2015, 78, 3-8.	1.9	90
35	Disturbed mitochondrial dynamics and neurodegenerative disorders. Nature Reviews Neurology, 2015, 11, 11-24.	10.1	533
36	Mitochondrial calcium and the regulation of metabolism in the heart. Journal of Molecular and Cellular Cardiology, 2015, 78, 35-45.	1.9	156
37	The mitochondrial calcium uniporter: Mice can live and die without it. Journal of Molecular and Cellular Cardiology, 2015, 78, 46-53.	1.9	46

		KLI OKI	
#	Article	IF	CITATIONS
38	Mitochondrial Quality Control and Muscle Mass Maintenance. Frontiers in Physiology, 2015, 6, 422.	2.8	290
39	Physical exercise in aging human skeletal muscle increases mitochondrial calcium uniporter expression levels and affects mitochondria dynamics. Physiological Reports, 2016, 4, e13005.	1.7	71
40	The Roles of Mitochondrial Cation Channels Under Physiological Conditions and in Cancer. Handbook of Experimental Pharmacology, 2016, 240, 47-69.	1.8	2
41	Homozygous deletion in <i>MICU1</i> presenting with fatigue and lethargy in childhood. Neurology: Genetics, 2016, 2, e59.	1.9	86
42	Neuromuscular Manifestations in Mitochondrial Diseases in Children. Seminars in Pediatric Neurology, 2016, 23, 290-305.	2.0	6
43	Glutamate excitotoxicity and Ca 2+ -regulation of respiration: Role of the Ca 2+ activated mitochondrial transporters (CaMCs). Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1158-1166.	1.0	77
44	Enjoy the Trip: Calcium in Mitochondria Back and Forth. Annual Review of Biochemistry, 2016, 85, 161-192.	11.1	348
45	Identification of key pathways and genes in colorectal cancer using bioinformatics analysis. Medical Oncology, 2016, 33, 111.	2.5	112
46	Calcium at the Center of Cell Signaling: Interplay between Endoplasmic Reticulum, Mitochondria, and Lysosomes. Trends in Biochemical Sciences, 2016, 41, 1035-1049.	7.5	382
47	Forty years later: Mitochondria as therapeutic targets in muscle diseases. Pharmacological Research, 2016, 113, 563-573.	7.1	28
48	MICU1 Serves as a Molecular Gatekeeper to Prevent InÂVivo Mitochondrial Calcium Overload. Cell Reports, 2016, 16, 1561-1573.	6.4	175
49	Genetically Encoded Fluorescent Indicators for Organellar Calcium Imaging. Biophysical Journal, 2016, 111, 1119-1131.	0.5	106
50	The rise of mitochondria in medicine. Mitochondrion, 2016, 30, 105-116.	3.4	349
51	Inhibiting the Mitochondrial Calcium Uniporter during Development Impairs Memory in Adult Drosophila. Cell Reports, 2016, 16, 2763-2776.	6.4	48
52	The Spectrum of Mitochondrial Ultrastructural Defects in Mitochondrial Myopathy. Scientific Reports, 2016, 6, 30610.	3.3	165
53	The m -AAA Protease Associated with Neurodegeneration Limits MCU Activity in Mitochondria. Molecular Cell, 2016, 64, 148-162.	9.7	153
54	Mitochondrial Ca2+ uptake in skeletal muscle health and disease. Science China Life Sciences, 2016, 59, 770-776.	4.9	25
55	The mitochondrial Ca2+ uniporter: regulation by auxiliary subunits and signal transduction pathways. American Journal of Physiology - Cell Physiology, 2016, 311, C67-C80.	4.6	24

#	Article	IF	CITATIONS
56	MICU1 regulation of mitochondrial Ca2+ uptake dictates survival and tissue regeneration. Nature Communications, 2016, 7, 10955.	12.8	159
57	Mutation/SNP analysis in EF-hand calcium binding domain of mitochondrial Ca2+ uptake 1 gene in bipolar disorder patients. Journal of Integrative Neuroscience, 2016, 15, 163-173.	1.7	6
58	EMRE Is a Matrix Ca 2+ Sensor that Governs Gatekeeping of the Mitochondrial Ca 2+ Uniporter. Cell Reports, 2016, 14, 403-410.	6.4	134
59	Impact of intracellular ion channels on cancer development and progression. European Biophysics Journal, 2016, 45, 685-707.	2.2	40
60	Mitochondrial Calcium Uptake Modulates Synaptic Vesicle Endocytosis in Central Nerve Terminals. Journal of Biological Chemistry, 2016, 291, 2080-2086.	3.4	59
61	Regulation of mitochondrial calcium in plants versus animals. Journal of Experimental Botany, 2016, 67, 3809-3829.	4.8	55
62	Molecular structure and pathophysiological roles of the Mitochondrial Calcium Uniporter. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 2457-2464.	4.1	62
63	Pathological consequences of MICU1 mutations on mitochondrial calcium signalling and bioenergetics. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 1009-1017.	4.1	47
64	Tissue-Specific Mitochondrial Decoding of Cytoplasmic Ca2+ Signals Is Controlled by the Stoichiometry of MICU1/2 and MCU. Cell Reports, 2017, 18, 2291-2300.	6.4	145
65	Loss of forebrain MTCH2 decreases mitochondria motility and calcium handling and impairs hippocampal-dependent cognitive functions. Scientific Reports, 2017, 7, 44401.	3.3	35
66	The Mitochondrial Ca2+ Uniporter: Structure, Function, and Pharmacology. Handbook of Experimental Pharmacology, 2017, 240, 129-156.	1.8	36
67	Proteolytic control of the mitochondrial calcium uniporter complex. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4388-4393.	7.1	68
68	Improved skeletal muscle Ca ²⁺ regulation in vivo following contractions in mice overexpressing PGC-1α. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2017, 312, R1017-R1028.	1.8	25
69	Molecular Basis for Mitochondrial Signaling. Biological and Medical Physics Series, 2017, , .	0.4	4
70	Highâ€affinity cooperative Ca ²⁺ binding by <scp>MICU</scp> 1– <scp>MICU</scp> 2 serves as an on–off switch for theÂuniporter. EMBO Reports, 2017, 18, 1397-1411.	4.5	111
71	Intracellular Ca2+ Sensing: Its Role in Calcium Homeostasis and Signaling. Molecular Cell, 2017, 66, 780-788.	9.7	499
72	Molecular Players of Mitochondrial Calcium Signaling: Similarities and Different Aspects in Various Organisms. Biological and Medical Physics Series, 2017, , 41-65.	0.4	0
73	A small-molecule DS44170716 inhibits Ca2+-induced mitochondrial permeability transition. Scientific Reports, 2017, 7, 3864.	3.3	15

#	Article	IF	CITATIONS
74	A role for TSPO in mitochondrial Ca2+ homeostasis and redox stress signaling. Cell Death and Disease, 2017, 8, e2896-e2896.	6.3	75
75	Mitochondrial Calcium Handling in Physiology and Disease. Advances in Experimental Medicine and Biology, 2017, 982, 25-47.	1.6	61
76	Constriction of the mitochondrial inner compartment is a priming event for mitochondrial division. Nature Communications, 2017, 8, 15754.	12.8	155
77	The In Vivo Biology of the Mitochondrial Calcium Uniporter. Advances in Experimental Medicine and Biology, 2017, 982, 49-63.	1.6	22
78	From dysfunctional endoplasmic reticulum-mitochondria coupling to neurodegeneration. Neurochemistry International, 2017, 109, 171-183.	3.8	54
79	MICU1 Alleviates Diabetic Cardiomyopathy Through Mitochondrial Ca2+–Dependent Antioxidant Response. Diabetes, 2017, 66, 1586-1600.	0.6	67
80	Redox Control of Mitochondrial Calcium Uptake. Molecular Cell, 2017, 65, 961-962.	9.7	12
81	Copy number variation in 19 Italian multiplex families with autism spectrum disorder: Importance of synaptic and neurite elongation genes. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2017, 174, 547-556.	1.7	7
82	Physiological Characterization of a Plant Mitochondrial Calcium Uniporter in Vitro and in Vivo. Plant Physiology, 2017, 173, 1355-1370.	4.8	54
83	Mitochondria in complex psychiatric disorders: Lessons from mouse models of 22q11.2 deletion syndrome. BioEssays, 2017, 39, 1600177.	2.5	33
84	Mitochondrial cardiomyopathies feature increased uptake and diminished efflux of mitochondrial calcium. Journal of Molecular and Cellular Cardiology, 2017, 113, 22-32.	1.9	42
85	A null mutation in MICU2 causes abnormal mitochondrial calcium homeostasis and a severe neurodevelopmental disorder. Brain, 2017, 140, 2806-2813.	7.6	38
86	DS16570511 is a small-molecule inhibitor of the mitochondrial calcium uniporter. Cell Death Discovery, 2017, 3, 17045.	4.7	72
87	MICU2 Restricts Spatial Crosstalk between InsP 3 R and MCU Channels by Regulating Threshold and Gain of MICU1-Mediated Inhibition and Activation of MCU. Cell Reports, 2017, 21, 3141-3154.	6.4	73
88	MICU1 protects against myocardial ischemia/reperfusion injury and its control by the importer receptor Tom70. Cell Death and Disease, 2017, 8, e2923-e2923.	6.3	36
89	The Function of the Mitochondrial Calcium Uniporter in Neurodegenerative Disorders. International Journal of Molecular Sciences, 2017, 18, 248.	4.1	51
90	Myopathology of Adult and Paediatric Mitochondrial Diseases. Journal of Clinical Medicine, 2017, 6, 64.	2.4	31
91	Structure, Activity Regulation, and Role of the Mitochondrial Calcium Uniporter in Health and Disease. Frontiers in Oncology, 2017, 7, 139.	2.8	80

#	Article	IF	CITATIONS
92	The Regulation of Tumor Cell Invasion and Metastasis by Endoplasmic Reticulum-to-Mitochondrial Ca2+ Transfer. Frontiers in Oncology, 2017, 7, 171.	2.8	28
93	Role of mitochondrial dysfunction and dysregulation of Ca2+ homeostasis in the pathophysiology of insulin resistance and type 2 diabetes. Journal of Biomedical Science, 2017, 24, 70.	7.0	82
94	Inhibition of mitochondrial calcium uptake 1 in Drosophila neurons. Genetics and Molecular Research, 2017, 16, .	0.2	10
95	Identification of genes and pathways in nasopharyngeal carcinoma by bioinformatics analysis. Oncotarget, 2017, 8, 63738-63749.	1.8	22
97	m-AAA proteases, mitochondrial calcium homeostasis and neurodegeneration. Cell Research, 2018, 28, 296-306.	12.0	86
98	Calcium Dynamics as a Machine for Decoding Signals. Trends in Cell Biology, 2018, 28, 258-273.	7.9	176
99	Multicolor monitoring of cellular organelles by single wavelength excitation to visualize the mitophagy process. Chemical Science, 2018, 9, 2756-2761.	7.4	92
100	Mitochondria at the neuronal presynapse in health and disease. Nature Reviews Neuroscience, 2018, 19, 63-80.	10.2	486
101	Pharmacological modulation of mitochondrial calcium homeostasis. Journal of Physiology, 2018, 596, 2717-2733.	2.9	34
102	Movement disorders in mitochondrial disease. Journal of Neurology, 2018, 265, 1230-1240.	3.6	41
103	mGlu5-mediated signalling in developing astrocyte and the pathogenesis of autism spectrum disorders. Current Opinion in Neurobiology, 2018, 48, 139-145.	4.2	23
104	A Middle Eastern Founder Mutation Expands the Genotypic and Phenotypic Spectrum of Mitochondrial MICU1 Deficiency: A Report of 13 Patients. JIMD Reports, 2018, 43, 79-83.	1.5	46
105	Analyses of Mitochondrial Calcium Influx in Isolated Mitochondria and Cultured Cells. Journal of Visualized Experiments, 2018, , .	0.3	12
106	New insights into the role of mitochondrial calcium homeostasis in cell migration. Biochemical and Biophysical Research Communications, 2018, 500, 75-86.	2.1	100
107	The MCU complex in cell death. Cell Calcium, 2018, 69, 73-80.	2.4	62
108	The emerging role of immune dysfunction in mitochondrial diseases as a paradigm for understanding immunometabolism. Metabolism: Clinical and Experimental, 2018, 81, 97-112.	3.4	49
109	Promises and Pitfalls of Metal Imaging in Biology. Cell Chemical Biology, 2018, 25, 7-18.	5.2	37
110	Recent advances in the molecular mechanism of mitochondrial calcium uptake. F1000Research, 2018, 7, 1858.	1.6	46

	CITATION	CITATION REPORT	
#	Article	IF	CITATIONS
111	MICU1 Confers Protection from MCU-Dependent Manganese Toxicity. Cell Reports, 2018, 25, 1425-1435.e7.	6.4	26
112	Pathogenic copy number variants that affect gene expression contribute to genomic burden in cerebral palsy. Npj Genomic Medicine, 2018, 3, 33.	3.8	31
113	Synaptosome Bioenergetics and Calcium Handling: Aging Response. Neuromethods, 2018, , 131-151.	0.3	1
114	The Influence of MicroRNAs on Mitochondrial Calcium. Frontiers in Physiology, 2018, 9, 1291.	2.8	19
115	Intracellular calcium and NF-kB regulate hypoxia-induced leptin, VEGF, IL-6 and adiponectin secretion in human adipocytes. Life Sciences, 2018, 212, 275-284.	4.3	25
116	MICU1 Interacts with the D-Ring of the MCU Pore to Control Its Ca2+ Flux and Sensitivity to Ru360. Molecular Cell, 2018, 72, 778-785.e3.	9.7	92
117	AAA Proteases: Guardians of Mitochondrial Function and Homeostasis. Cells, 2018, 7, 163.	4.1	36
118	Slow activation of fast mitochondrial Ca2+ uptake by cytosolic Ca2+. Journal of Biological Chemistry, 2018, 293, 17081-17094.	3.4	21
119	FOXD1-dependent MICU1 expression regulates mitochondrial activity and cell differentiation. Nature Communications, 2018, 9, 3449.	12.8	31
120	Molecular regulation of MCU: Implications in physiology and disease. Cell Calcium, 2018, 74, 86-93.	2.4	91
121	MICU1 imparts the mitochondrial uniporter with the ability to discriminate between Ca ²⁺ and Mn ²⁺ . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7960-E7969.	7.1	59
122	Identification of genomic expression differences between right-sided and left-sided colon cancer based on bioinformatics analysis. OncoTargets and Therapy, 2018, Volume 11, 609-618.	2.0	14
123	Mitochondrial Division Inhibitor 1 (mdivi-1) Protects Neurons against Excitotoxicity through the Modulation of Mitochondrial Function and Intracellular Ca2+ Signaling. Frontiers in Molecular Neuroscience, 2018, 11, 3.	2.9	74
124	Cryo-EM structure of a fungal mitochondrial calcium uniporter. Nature, 2018, 559, 570-574.	27.8	125
125	Calcium Signaling and Reactive Oxygen Species in Mitochondria. Circulation Research, 2018, 122, 1460-1478.	4.5	381
126	Electrical recordings of the mitochondrial calcium uniporter in <i>Xenopus</i> oocytes. Journal of General Physiology, 2018, 150, 1035-1043.	1.9	14
127	MICU3 is a tissue-specific enhancer of mitochondrial calcium uptake. Cell Death and Differentiation, 2019, 26, 179-195.	11.2	145
128	Non and Epigenetic Mechanisms in Regulation of Adaptive Thermogenesis in Skeletal Muscle. Frontiers in Endocrinology, 2019, 10, 517.	3.5	9

#	Article	IF	CITATIONS
129	Mitochondria-Immobilized Near-Infrared Ratiometric Fluorescent pH Probe To Evaluate Cellular Mitophagy. Analytical Chemistry, 2019, 91, 11409-11416.	6.5	122
130	Hippocampal Subregions Express Distinct Dendritic Transcriptomes that Reveal Differences in Mitochondrial Function in CA2. Cell Reports, 2019, 29, 522-539.e6.	6.4	61
131	Systematic Discovery of Endogenous Human Ribonucleoprotein Complexes. Cell Reports, 2019, 29, 1351-1368.e5.	6.4	53
132	Dysregulation of Mitochondrial Ca2+ Uptake and Sarcolemma Repair Underlie Muscle Weakness and Wasting in Patients and Mice Lacking MICU1. Cell Reports, 2019, 29, 1274-1286.e6.	6.4	68
133	Impaired mitochondrial calcium efflux contributes to disease progression in models of Alzheimer's disease. Nature Communications, 2019, 10, 3885.	12.8	224
134	Mitochondrial Calcium Uniporter Structure and Function in Different Types of Muscle Tissues in Health and Disease. International Journal of Molecular Sciences, 2019, 20, 4823.	4.1	17
135	Role of mitochondrial Ca2+ homeostasis in cardiac muscles. Archives of Biochemistry and Biophysics, 2019, 663, 276-287.	3.0	27
136	Calcium Signalling. Methods in Molecular Biology, 2019, , .	0.9	2
137	Measuring Ca2+ Levels in Subcellular Compartments with Genetically Encoded GFP-Based Indicators. Methods in Molecular Biology, 2019, 1925, 31-42.	0.9	3
138	<p>Identification of key genes and pathways in seminoma by bioinformatics analysis</p> . OncoTargets and Therapy, 2019, Volume 12, 3683-3693.	2.0	10
139	Contribution of Mitochondrial Ion Channels to Chemo-Resistance in Cancer Cells. Cancers, 2019, 11, 761.	3.7	31
140	Mutations in C1orf194, encoding a calcium regulator, cause dominant Charcot-Marie-Tooth disease. Brain, 2019, 142, 2215-2229.	7.6	16
141	Structural Mechanism of EMRE-Dependent Gating of the Human Mitochondrial Calcium Uniporter. Cell, 2019, 177, 1252-1261.e13.	28.9	108
142	Mitochondriaâ€coupled glucose phosphorylation develops after birth to modulate H 2 O 2 release and calcium handling in rat brain. Journal of Neurochemistry, 2019, 149, 624-640.	3.9	10
143	Exploring the InÂVivo Role of the Mitochondrial Calcium Uniporter in Brown Fat Bioenergetics. Cell Reports, 2019, 27, 1364-1375.e5.	6.4	31
144	Comprehensive Genetic Characterization of Mitochondrial Ca2+ Uniporter Components Reveals Their Different Physiological Requirements InÂVivo. Cell Reports, 2019, 27, 1541-1550.e5.	6.4	46
145	Crosstalk between Calcium and ROS in Pathophysiological Conditions. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-18.	4.0	115
146	Recently Identified Congenital Myopathies. Seminars in Pediatric Neurology, 2019, 29, 83-90.	2.0	6

#	Article	IF	CITATIONS
147	A novel case of MSTO1 gene related congenital muscular dystrophy with progressive neurological involvement. Neuromuscular Disorders, 2019, 29, 448-455.	0.6	9
148	Gestation age-associated dynamics of mitochondrial calcium uniporter subunits expression in feto-maternal complex at term and preterm delivery. Scientific Reports, 2019, 9, 5501.	3.3	9
149	Overexpression of Mitochondrial Calcium Uniporter Causes Neuronal Death. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-15.	4.0	42
151	Pharmacological modulation of mitochondrial ion channels. British Journal of Pharmacology, 2019, 176, 4258-4283.	5.4	37
152	Calcium, mitochondria and cell metabolism: A functional triangle in bioenergetics. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 1068-1078.	4.1	257
153	Aktâ€mediated phosphorylation of <scp>MICU</scp> 1 regulates mitochondrial Ca ²⁺ levels and tumor growth. EMBO Journal, 2019, 38, .	7.8	77
154	Mitochondrial calcium uniporter as a potential therapeutic strategy for Alzheimer's disease. Acta Neuropsychiatrica, 2020, 32, 65-71.	2.1	17
155	Impaired cellular bioenergetics caused by GBA1 depletion sensitizes neurons to calcium overload. Cell Death and Differentiation, 2020, 27, 1588-1603.	11.2	24
156	A near-infrared fluorescent probe reveals decreased mitochondrial polarity during mitophagy. Chemical Science, 2020, 11, 1617-1622.	7.4	106
157	Inhibitors of the mitochondrial calcium uniporter for the treatment of disease. Current Opinion in Chemical Biology, 2020, 55, 9-18.	6.1	50
158	Computational insights into the binding pattern of mitochondrial calcium uniporter inhibitor through homology modeling, molecular dynamics simulation, binding free energy prediction and density functional theory calculation. Journal of Biomolecular Structure and Dynamics, 2020, 38, 5095-5107.	3.5	6
159	Neurotoxicity of Mn3O4 nanoparticles: Apoptosis and dopaminergic neurons damage pathway. Ecotoxicology and Environmental Safety, 2020, 188, 109909.	6.0	22
160	Oxygen Glucose Deprivation Induced Prosurvival Autophagy Is Insufficient to Rescue Endothelial Function. Frontiers in Physiology, 2020, 11, 533683.	2.8	10
161	The Mitochondrial Ca2+ Uptake and the Fine-Tuning of Aerobic Metabolism. Frontiers in Physiology, 2020, 11, 554904.	2.8	60
162	Mitochondrial calcium handling and neurodegeneration: when a good signal goes wrong. Current Opinion in Physiology, 2020, 17, 224-233.	1.8	12
163	Coupled transmembrane mechanisms control MCU-mediated mitochondrial Ca ²⁺ uptake. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21731-21739.	7.1	38
164	Mechanisms of EMRE-Dependent MCU Opening in the Mitochondrial Calcium Uniporter Complex. Cell Reports, 2020, 33, 108486.	6.4	16
165	Structure and mechanism of the mitochondrial Ca2+ uniporter holocomplex. Nature, 2020, 582, 129-133.	27.8	157

#	Article	IF	Citations
166	Is MCU dispensable for normal heart function?. Journal of Molecular and Cellular Cardiology, 2020, 143, 175-183.	1.9	11
167	Structural Mechanisms of Store-Operated and Mitochondrial Calcium Regulation: Initiation Points for Drug Discovery. International Journal of Molecular Sciences, 2020, 21, 3642.	4.1	5
168	Mitochondrial Dysfunction in Ageâ€Related Metabolic Disorders. Proteomics, 2020, 20, e1800404.	2.2	41
169	An essential role for cardiolipin in the stability and function of the mitochondrial calcium uniporter. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16383-16390.	7.1	63
170	The Function of Mitochondrial Calcium Uniporter at the Whole-Cell and Single Mitochondrion Levels in WT, MICU1 KO, and MICU2 KO Cells. Cells, 2020, 9, 1520.	4.1	11
171	Cytosolic, but not matrix, calcium is essential for adjustment of mitochondrial pyruvate supply. Journal of Biological Chemistry, 2020, 295, 4383-4397.	3.4	43
172	MCUB and mitochondrial calcium uptake – modeling, function, and therapeutic potential. Expert Opinion on Therapeutic Targets, 2020, 24, 163-169.	3.4	11
173	Lanthanum chloride impairs spatial learning and memory by inducing [Ca2+]m overload, mitochondrial fission–fusion disorder and excessive mitophagy in hippocampal nerve cells of rats. Metallomics, 2020, 12, 592-606.	2.4	19
174	Mitochondrial division inhibitor 1 disrupts oligodendrocyte Ca ²⁺ homeostasis and mitochondrial function. Glia, 2020, 68, 1743-1756.	4.9	23
175	A High-Throughput Screening Identifies MICU1 Targeting Compounds. Cell Reports, 2020, 30, 2321-2331.e6.	6.4	54
176	Role of Mitochondrial Calcium and the Permeability Transition Pore in Regulating Cell Death. Circulation Research, 2020, 126, 280-293.	4.5	224
177	The mRNA Decay Factor CAR-1/LSM14 Regulates Axon Regeneration via Mitochondrial Calcium Dynamics. Current Biology, 2020, 30, 865-876.e7.	3.9	19
178	The debate continues – What is the role of MCU and mitochondrial calcium uptake in the heart?. Journal of Molecular and Cellular Cardiology, 2020, 143, 163-174.	1.9	33
179	Reporting a rare form of myopathy, myopathy with extrapyramidal signs, in an Iranian family using next generation sequencing: a case report. BMC Medical Genetics, 2020, 21, 77.	2.1	11
180	Regulation of Mitochondrial Ca ²⁺ Uptake. Annual Review of Physiology, 2021, 83, 107-126.	13.1	25
181	Muscular Dystrophies and Allied Disorders III. , 2021, , 261-285.		0
182	Pharmacological inhibition of the mitochondrial Ca2+ uniporter: Relevance for pathophysiology and human therapy. Journal of Molecular and Cellular Cardiology, 2021, 151, 135-144.	1.9	28
183	The ubiquitin-proteasome system and its crosstalk with mitochondria as therapeutic targets in medicine. Pharmacological Research, 2021, 163, 105248.	7.1	22

#	Article	IF	CITATIONS
184	The yin and yang of mitochondrial Ca2+ signaling in cell physiology and pathology. Cell Calcium, 2021, 93, 102321.	2.4	14
185	The molecular complexity of the Mitochondrial Calcium Uniporter. Cell Calcium, 2021, 93, 102322.	2.4	29
186	Molecular machinery regulating mitochondrial calcium levels: The nuts and bolts of mitochondrial calcium dynamics. Mitochondrion, 2021, 57, 9-22.	3.4	25
187	Molecular nature and physiological role of the mitochondrial calcium uniporter channel. American Journal of Physiology - Cell Physiology, 2021, 320, C465-C482.	4.6	54
188	<i>In situ</i> oxygenating and 808 nm light-sensitized nanocomposite for multimodal imaging and mitochondria-assisted cancer therapy. Journal of Materials Chemistry B, 2021, 9, 131-146.	5.8	14
189	Role of mitochondria-associated endoplasmic reticulum membrane (MAMs) interactions and calcium exchange in the development of type 2 diabetes. International Review of Cell and Molecular Biology, 2021, 363, 169-202.	3.2	15
190	Molecular pathophysiology of human MICU1 deficiency. Neuropathology and Applied Neurobiology, 2021, 47, 840-855.	3.2	15
191	A New Transgenic Mouse Line for Imaging Mitochondrial Calcium Signals. Function, 2021, 2, zqab012.	2.3	6
192	Altered mitochondrial calcium handling and cell death by necroptosis: An emerging paradigm. Mitochondrion, 2021, 57, 47-62.	3.4	20
193	The mitochondrial intermembrane space: the most constricted mitochondrial sub-compartment with the largest variety of protein import pathways. Open Biology, 2021, 11, 210002.	3.6	18
194	Skeletal muscle mitochondria in health and disease. Cell Calcium, 2021, 94, 102357.	2.4	21
195	Persistently elevated CK and lysosomal storage myopathy associated with mucolipin 1 defects. Neuromuscular Disorders, 2021, 31, 212-217.	0.6	1
197	Looking Back to the Future of Mitochondrial Research. Frontiers in Physiology, 2021, 12, 682467.	2.8	1
198	Identification of a novel MICU1 nonsense variant causes myopathy with extrapyramidal signs in an Iranian consanguineous family. Molecular and Cellular Pediatrics, 2021, 8, 6.	1.8	8
199	Excitotoxicity Revisited: Mitochondria on the Verge of a Nervous Breakdown. Trends in Neurosciences, 2021, 44, 342-351.	8.6	27
200	Parvalbumin affects skeletal muscle trophism through modulation of mitochondrial calcium uptake. Cell Reports, 2021, 35, 109087.	6.4	16
201	From the Identification to the Dissection of the Physiological Role of the Mitochondrial Calcium Uniporter: An Ongoing Story. Biomolecules, 2021, 11, 786.	4.0	17
202	Mitochondria and the permeability transition pore in cancer metabolic reprogramming. Biochemical Pharmacology, 2021, 188, 114537.	4.4	12

#	Article	IF	CITATIONS
203	Altered Ca2+ Handling and Oxidative Stress Underlie Mitochondrial Damage and Skeletal Muscle Dysfunction in Aging and Disease. Metabolites, 2021, 11, 424.	2.9	27
204	Identification and functional validation of FDA-approved positive and negative modulators of the mitochondrial calcium uniporter. Cell Reports, 2021, 35, 109275.	6.4	28
205	Identification of potential diagnostic and prognostic biomarkers for LUAD based on TCGA and GEO databases. Bioscience Reports, 2021, 41, .	2.4	26
206	Congenital muscular dystrophies: What is new?. Neuromuscular Disorders, 2021, 31, 931-942.	0.6	25
207	Sleep/wake calcium dynamics, respiratory function, and ROS production in cardiac mitochondria. Journal of Advanced Research, 2021, 31, 35-47.	9.5	15
208	The mechanism of MICU-dependent gating of the mitochondrial Ca2+uniporter. ELife, 2021, 10, .	6.0	39
209	Structural characterization of the mitochondrial Ca2+ uniporter provides insights into Ca2+ uptake and regulation. IScience, 2021, 24, 102895.	4.1	8
210	MCU-complex-mediated mitochondrial calcium signaling is impaired in Barth syndrome. Human Molecular Genetics, 2022, 31, 376-385.	2.9	10
211	Mitochondrial clearance of calcium facilitated by MICU2 controls insulin secretion. Molecular Metabolism, 2021, 51, 101239.	6.5	15
212	Emergence of repurposed drugs as modulators of MCU channel for clinical therapeutics. Cell Calcium, 2021, 99, 102456.	2.4	1
213	Cobalt amine complexes and Ru265 interact with the DIME region of the mitochondrial calcium uniporter. Chemical Communications, 2021, 57, 6161-6164.	4.1	14
214	The mitochondrial calcium homeostasis orchestra plays its symphony: Skeletal muscle is the guest of honor. International Review of Cell and Molecular Biology, 2021, 362, 209-259.	3.2	7
215	Developmental brain abnormalities and acute encephalopathy in a patient with myopathy with extrapyramidal signs secondary to pathogenic variants in MICU1. JIMD Reports, 2020, 53, 22-28.	1.5	15
216	Nuclear-mitochondrial communication involving miR-181c plays an important role in cardiac dysfunction during obesity. Journal of Molecular and Cellular Cardiology, 2020, 144, 87-96.	1.9	12
221	Structure of the MICU1–MICU2 heterodimer provides insights into the gatekeeping threshold shift. IUCrJ, 2020, 7, 355-365.	2.2	23
222	EMRE is essential for mitochondrial calcium uniporter activity in a mouse model. JCI Insight, 2020, 5, .	5.0	44
223	Movement Disorders Presenting in Childhood. CONTINUUM Lifelong Learning in Neurology, 2016, 22, 1159-1185.	0.8	10
224	Hepatitis B virus modulates store-operated calcium entry to enhance viral replication in primary hepatocytes. PLoS ONE, 2017, 12, e0168328.	2.5	27

#	Article	IF	CITATIONS
225	α-Synuclein-Dependent Calcium Entry Underlies Differential Sensitivity of Cultured SN and VTA Dopaminergic Neurons to a Parkinsonian Neurotoxin. ENeuro, 2017, 4, ENEURO.0167-17.2017.	1.9	64
226	Melatonin alleviates angiotensin-II-induced cardiac hypertrophy via activating MICU1 pathway. Aging, 2021, 13, 493-515.	3.1	17
227	Tetrandrine Induces Apoptosis in Human Nasopharyngeal Carcinoma NPC-TW 039 Cells by Endoplasmic Reticulum Stress and Ca2+/Calpain Pathways. Anticancer Research, 2017, 37, 6107-6118.	1.1	15
228	Evolutionary divergence reveals the molecular basis of EMRE dependence of the human MCU. Life Science Alliance, 2020, 3, e202000718.	2.8	5
229	Modulation of the matrix redox signaling by mitochondrial Ca2+. World Journal of Biological Chemistry, 2015, 6, 310.	4.3	23
230	Loss of Heterozygosity at the Calcium Regulation Gene Locus on Chromosome 10q in Human Pancreatic Cancer. Asian Pacific Journal of Cancer Prevention, 2015, 16, 2489-2493.	1.2	9
231	The conserved aspartate ring of MCU mediates MICU1 binding and regulation in the mitochondrial calcium uniporter complex. ELife, 2019, 8, .	6.0	55
232	Structural insights into the Ca2+-dependent gating of the human mitochondrial calcium uniporter. ELife, 2020, 9, .	6.0	34
233	Mitochondrial calcium exchange in physiology and disease. Physiological Reviews, 2022, 102, 893-992.	28.8	115
237	Neuronal Loss of NCLX-Dependent Mitochondrial Calcium Efflux Contributes to Age-Associated Cognitive Decline. SSRN Electronic Journal, 0, , .	0.4	0
238	Histological and Histochemical Changes. , 2020, , 46-77.		0
241	MICU3 regulates mitochondrial Ca2+-dependent antioxidant response in skeletal muscle aging. Cell Death and Disease, 2021, 12, 1115.	6.3	22
243	Engeering a Tumor-specific and Mitochondria Targeted Fluorescent Probe for Modulated Autophagy and Exploited Anti-cancer Therapy. Sensors and Actuators B: Chemical, 2021, 353, 131178.	7.8	1
245	Glutaminolysis and the Control of Neural Progenitors in Neocortical Development and Evolution. Neuroscientist, 2023, 29, 177-189.	3.5	6
246	Therapeutic Strategies Targeting Mitochondrial Calcium Signaling: A New Hope for Neurological Diseases?. Antioxidants, 2022, 11, 165.	5.1	18
247	MICU1-dependent mitochondrial calcium uptake regulates lung alveolar type 2 cell plasticity and lung regeneration. JCI Insight, 2022, 7, .	5.0	11
248	Identification of a novel homozygous <i>synthesis of cytochrome c oxidase 2</i> variant in siblings with earlyâ€onset axonal Charcotâ€Marieâ€Tooth disease. Human Mutation, 2022, 43, 477-486.	2.5	3
249	Mitochondrial Calcium Homeostasis and Implications for Human Health. Food and Nutritional Components in Focus, 2015, , 448-467.	0.1	1

#	Article	IF	Citations
251	VDAC2 as a novel target for heart failure: Ca2+ at the sarcomere, mitochondria and SR. Cell Calcium, 2022, 104, 102586.	2.4	3
252	Shedding light on the phenotypic–genotypic correlation of rare treatable and potentially treatable pediatric movement disorders. Egyptian Journal of Medical Human Genetics, 2022, 23, .	1.0	0
253	Mitochondrial Channels and their Role in Cardioprotection. Biochemistry, 0, , .	1.2	0
254	SGPL1 stimulates VPS39 recruitment to the mitochondria in MICU1 deficient cells. Molecular Metabolism, 2022, , 101503.	6.5	5
255	Mitochondrial Calcium: Effects of Its Imbalance in Disease. Antioxidants, 2022, 11, 801.	5.1	42
256	Uncontrolled mitochondrial calcium uptake underlies the pathogenesis of neurodegeneration in MICU1-deficient mice and patients. Science Advances, 2022, 8, eabj4716.	10.3	18
257	Transcriptome-based variant calling and aberrant mRNA discovery enhance diagnostic efficiency for neuromuscular diseases. Journal of Medical Genetics, 2022, 59, 1075-1081.	3.2	6
258	Ca2+ Sensors Assemble: Function of the MCU Complex in the Pancreatic Beta Cell. Cells, 2022, 11, 1993.	4.1	2
259	Mitochondria-Associated Membrane Scaffolding with Endoplasmic Reticulum: A Dynamic Pathway of Developmental Disease. Frontiers in Molecular Biosciences, 0, 9, .	3.5	0
261	The Diabetic Cardiorenal Nexus. International Journal of Molecular Sciences, 2022, 23, 7351.	4.1	6
262	MCU proteins dominate in vivo mitochondrial Ca2+ uptake in Arabidopsis roots. Plant Cell, 2022, 34, 4428-4452.	6.6	13
263	The mitochondrial calcium uniporter engages UCP1 to form a thermoporter that promotes thermogenesis. Cell Metabolism, 2022, 34, 1325-1341.e6.	16.2	20
264	The Genetic Landscape of Complex Childhoodâ€Onset Hyperkinetic Movement Disorders. Movement Disorders, 2022, 37, 2197-2209.	3.9	8
266	Segmental dystonia as the prominent phenotype resulting from a MICU1 splice variant in a new Indian case. Parkinsonism and Related Disorders, 2022, 103, 141-143.	2.2	1
267	Ca ²⁺ channels couple spiking to mitochondrial metabolism in substantia nigra dopaminergic neurons. Science Advances, 2022, 8, .	10.3	32
268	Mechanisms and significance of tissue-specific MICU regulation of the mitochondrial calcium uniporter complex. Molecular Cell, 2022, 82, 3661-3676.e8.	9.7	9
270	Case report: Unusual episodic myopathy in a patient with novel homozygous deletion of first coding exon of MICU1 gene. Frontiers in Neurology, 0, 13, .	2.4	2
271	Mitochondrial biology and dysfunction in secondary mitochondrial disease. Open Biology, 2022, 12, .	3.6	5

#	Article	IF	CITATIONS
272	Enzymatically dissociated muscle fibers display rapid dedifferentiation and impaired mitochondrial calcium control. IScience, 2022, 25, 105654.	4.1	4
273	From passage to inhibition: Uncovering the structural and physiological inhibitory mechanisms of <scp>MCUb</scp> in mitochondrial calcium regulation. FASEB Journal, 2023, 37, .	0.5	2
274	Mitochondrial calcium uptake 1 (MICU1) gene-related myopathy with extrapyramidal signs: A clinico-radiological case report from India. Annals of Indian Academy of Neurology, 2023, 26, 73.	0.5	4
275	Mitochondrial calcium cycling in neuronal function and neurodegeneration. Frontiers in Cell and Developmental Biology, 0, 11, .	3.7	10
276	Regulatory mechanisms of mitochondrial calcium uptake by the calcium uniporter complex. Biophysics and Physicobiology, 2023, 20, n/a.	1.0	1
277	Deregulation of ER-mitochondria contact formation and mitochondrial calcium homeostasis mediated by VDAC in fragile X syndrome. Developmental Cell, 2023, 58, 597-615.e10.	7.0	2
278	The mitochondrial calcium uniporter complex–A play in five acts. Cell Calcium, 2023, 112, 102720.	2.4	4
279	Neuronal loss of NCLX-dependent mitochondrial calcium efflux mediates age-associated cognitive decline. IScience, 2023, 26, 106296.	4.1	8
280	Intracellular to Interorgan Mitochondrial Communication in Striated Muscle in Health and Disease. Endocrine Reviews, 2023, 44, 668-692.	20.1	9
281	Mitochondrial cristae in health and disease. International Journal of Biological Macromolecules, 2023, 235, 123755.	7.5	6
281 283	Mitochondrial cristae in health and disease. International Journal of Biological Macromolecules, 2023, 235, 123755. Increased mitochondrial Ca ²⁺ contributes to health decline with age and Duchene muscular dystrophy in <i>C. elegans</i> . FASEB Journal, 2023, 37, .	7.5 0.5	6
281 283 284	Mitochondrial cristae in health and disease. International Journal of Biological Macromolecules, 2023, 235, 123755. Increased mitochondrial Ca ²⁺ contributes to health decline with age and Duchene muscular dystrophy in <i>C. elegans</i> . FASEB Journal, 2023, 37, . Evidence supporting the MICU1 occlusion mechanism and against the potentiation model in the mitochondrial calcium uniporter complex. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	7.5 0.5 7.1	6 6 7
281 283 284 285	Mitochondrial cristae in health and disease. International Journal of Biological Macromolecules, 2023, 235, 123755.Increased mitochondrial Ca ²⁺ contributes to health decline with age and Duchene muscular dystrophy in <i>C. elegans</i> . FASEB Journal, 2023, 37, .Evidence supporting the MICU1 occlusion mechanism and against the potentiation model in the mitochondrial calcium uniporter complex. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .MICU1 regulates mitochondrial cristae structure and function independently of the mitochondrial Ca ²⁺ uniporter channel. Science Signaling, 2023, 16, .	7.50.57.13.6	6 6 7 9
281 283 284 285 285	Mitochondrial cristae in health and disease. International Journal of Biological Macromolecules, 2023, 235, 123755. Increased mitochondrial Ca ²⁺ contributes to health decline with age and Duchene muscular dystrophy in <i>C. elegans</i> . FASEB Journal, 2023, 37, . Evidence supporting the MICU1 occlusion mechanism and against the potentiation model in the mitochondrial calcium uniporter complex. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, . MICU1 regulates mitochondrial cristae structure and function independently of the mitochondrial Ca ²⁺ uniporter channel. Science Signaling, 2023, 16, . Role of mitochondria in the myopathy of juvenile dermatomyositis and implications for skeletal muscle calcinosis. Journal of Autoimmunity, 2023, 138, 103061.	 7.5 0.5 7.1 3.6 6.5 	6 6 7 9 8
281 283 284 285 285 286	Mitochondrial cristae in health and disease. International Journal of Biological Macromolecules, 2023, 235, 123755. Increased mitochondrial Ca ²⁺ contributes to health decline with age and Duchene muscular dystrophy in <i>C. elegans</i> . FASEB Journal, 2023, 37, . Evidence supporting the MICU1 occlusion mechanism and against the potentiation model in the mitochondrial calcium uniporter complex. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, . MICU1 regulates mitochondrial cristae structure and function independently of the mitochondrial Ca ²⁺ uniporter channel. Science Signaling, 2023, 16, . Role of mitochondria in the myopathy of juvenile dermatomyositis and implications for skeletal muscle calcinosis. Journal of Autoimmunity, 2023, 138, 103061. The mitochondrial calcium uniporter (MCU) activates mitochondrial respiration and enhances mobility by regulating mitochondrial redox state. Redox Biology, 2023, 64, 102759.	 7.5 0.5 7.1 3.6 6.5 9.0 	6 6 7 9 8 1
281 283 284 285 286 287 288	Mitochondrial cristae in health and disease. International Journal of Biological Macromolecules, 2023, 235, 123755. Increased mitochondrial Ca ²⁺ contributes to health decline with age and Duchene muscular dystrophy in <i>>C. elegans</i> . FASEB Journal, 2023, 37, . Evidence supporting the MICU1 occlusion mechanism and against the potentiation model in the mitochondrial calcium uniporter complex. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, . MICU1 regulates mitochondrial cristae structure and function independently of the mitochondrial Ca ²⁺ uniporter channel. Science Signaling, 2023, 16, . Role of mitochondria in the myopathy of juvenile dermatomyositis and implications for skeletal muscle calcinosis. Journal of Autoimmunity, 2023, 138, 103061. The mitochondrial calcium uniporter (MCU) activates mitochondrial respiration and enhances mobility by regulating mitochondrial redox state. Redox Biology, 2023, 64, 102759. MICU1 controls the sensitivity of the mitochondrial Ca2+ uniporter to activators and inhibitors. Cell Chemical Biology, 2023, 30, 606-617.e4.	 7.5 0.5 7.1 3.6 6.5 9.0 5.2 	6 6 7 9 8 1
281 283 284 285 285 286 287 288	Mitochondrial cristae in health and disease. International Journal of Biological Macromolecules, 2023, 235, 123755. Increased mitochondrial Ca ²⁺ contributes to health decline with age and Duchene muscular dystrophy in <i>>C. elegans</i> . FASEB Journal, 2023, 37, . Evidence supporting the MICU1 occlusion mechanism and against the potentiation model in the mitochondrial calcium uniporter complex. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, . MICU1 regulates mitochondrial cristae structure and function independently of the mitochondrial Ca ²⁺ uniporter channel. Science Signaling, 2023, 16, . Role of mitochondria in the myopathy of juvenile dermatomyositis and implications for skeletal muscle calcinosis. Journal of Autoimmunity, 2023, 138, 103061. The mitochondrial calcium uniporter (MCU) activates mitochondrial respiration and enhances mobility by regulating mitochondrial redox state. Redox Biology, 2023, 64, 102759. MICU1 controls the sensitivity of the mitochondrial Ca2+ uniporter to activators and inhibitors. Cell Chemical Biology, 2023, 30, 606-617.e4. Implications of <scp>MCU</scp> complex in metabolic diseases. FASEB Journal, 2023, 37, .	 7.5 0.5 7.1 3.6 6.5 9.0 5.2 0.5 	6 6 7 9 8 1 0

#	Article	IF	CITATIONS
291	Mitochondrial calcium uniporter deficiency in dentate granule cells remodels neuronal metabolism and impairs reversal learning. Journal of Neurochemistry, 0, , .	3.9	0
292	SMDT1 variants impair EMRE-mediated mitochondrial calcium uptake in patients with muscle involvement. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2023, 1869, 166808.	3.8	0
293	Mitochondrial dysfunction: roles in skeletal muscle atrophy. Journal of Translational Medicine, 2023, 21, .	4.4	18
294	Post-translational modifications and protein quality control of mitochondrial channels and transporters. Frontiers in Cell and Developmental Biology, 0, 11, .	3.7	0
296	The Mitochondrial Calcium Uniporter (MCU): Molecular Identity and Role in Human Diseases. Biomolecules, 2023, 13, 1304.	4.0	0
297	Mitochondrial Properties in Skeletal Muscle Fiber. Cells, 2023, 12, 2183.	4.1	5
298	Mitochondrial Calcium Overload Plays a Causal Role in Oxidative Stress in the Failing Heart. Biomolecules, 2023, 13, 1409.	4.0	0
299	Sepsis leads to impaired mitochondrial calcium uptake and skeletal muscle weakness by reducing the MICU1:MCU protein ratio. Shock, 0, , .	2.1	0
301	Feed-forward metabotropic signaling by Cav1 Ca2+ channels supports pacemaking in pedunculopontine cholinergic neurons. Neurobiology of Disease, 2023, 188, 106328.	4.4	2
303	MICU1- Related Myopathy with Extrapyramidal Signs. Annals of Indian Academy of Neurology, 2023, 26, 825-825.	0.5	0
304	Interactions of mitochondrial and skeletal muscle biology in mitochondrial myopathy. Biochemical Journal, 2023, 480, 1767-1789.	3.7	2
305	Multifaceted Roles of AFG3L2, a Mitochondrial ATPase in Relation to Neurological Disorders. Molecular Neurobiology, 0, , .	4.0	0
306	Loss of mitochondrial Ca ²⁺ uptake protein 3 impairs skeletal muscle calcium handling and exercise capacity. Journal of Physiology, 2024, 602, 113-128.	2.9	1
307	Calcium's Role and Signaling in Aging Muscle, Cellular Senescence, and Mineral Interactions. International Journal of Molecular Sciences, 2023, 24, 17034.	4.1	2
308	Imaging HOCl Generation during the Mitochondria Peripheral Fission with a Tailor-Made Fluorescent Probe. Analytical Chemistry, 0, , .	6.5	0
309	Dolichocephaly, Arachnodactyly, Diplopia, and Distal Myopathy – Novel Phenotype of MICU1 Variant c.553C>T. Cureus, 2024, , .	0.5	0
310	Supralinear Dependence of the IP ₃ Receptor-to-Mitochondria Local Ca ²⁺ Transfer on the Endoplasmic Reticulum Ca ²⁺ Loading. Contact (Thousand Oaks (Ventura) Tj ETQq0	010argBT /	Oøerlock 10

³¹¹MCU-independent Ca2+ uptake mediates mitochondrial Ca2+ overload and necrotic cell death in a
mouse model of Duchenne muscular dystrophy. Scientific Reports, 2024, 14, .3.30