Navdeep S Chandel

List of Publications by Year
in descending order

252 papers	56,099 citations	1994 101 h-index	1222 227 g-index
289 all docs	289 docs citations	289 times ranked	70166 citing authors

#	Article	IF	Citations
1	ROS Function in Redox Signaling and Oxidative Stress. Current Biology, 2014, 24, R453-R462.	3.9	4,622
2	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. Cell Death and Differentiation, 2018, 25, 486-541.	11.2	4,036
3	Physiological Roles of Mitochondrial Reactive Oxygen Species. Molecular Cell, 2012, 48, 158-167.	9.7	2,067
4	Fundamentals of cancer metabolism. Science Advances, 2016, 2, e1600200.	10.3	2,039
5	Reactive Oxygen Species Generated at Mitochondrial Complex III Stabilize Hypoxia-inducible Factor-1Î± during Hypoxia. Journal of Biological Chemistry, 2000, 275, 25130-25138.	3.4	1,697
6	Mitochondrial metabolism and ROS generation are essential for Kras-mediated tumorigenicity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8788-8793.	7.1	1,402
7	Bcl-xL Regulates the Membrane Potential and Volume Homeostasis of Mitochondria. Cell, 1997, 91, 627-637.	28.9	1,345
8	Mitochondrial TCA cycle metabolites control physiology and disease. Nature Communications, 2020, 11, 102.	12.8	1,213
9	Targeting mitochondria metabolism for cancer therapy. Nature Chemical Biology, 2015, 11, 9-15.	8.0	1,107
10	Reductive carboxylation supports growth in tumour cells with defective mitochondria. Nature, 2012, 481, 385-388.	27.8	1,074
11	Mitochondria Are Required for Antigen-Specific T Cell Activation through Reactive Oxygen Species Signaling. Immunity, 2013, 38, 225-236.	14.3	981
12	AMPK regulates NADPH homeostasis to promote tumour cell survival during energy stress. Nature, 2012, 485, 661-665.	27.8	934
13	Metformin inhibits mitochondrial complex I of cancer cells to reduce tumorigenesis. ELife, 2014, 3, e02242.	6.0	851
14	Mitochondrial reactive oxygen species regulate cellular signaling and dictate biological outcomes. Trends in Biochemical Sciences, 2010, 35, 505-513.	7.5	794
15	Monocyte-derived alveolar macrophages drive lung fibrosis and persist in the lung over the life span. Journal of Experimental Medicine, 2017, 214, 2387-2404.	8.5	755
16	Mitochondria in the Regulation of Innate and Adaptive Immunity. Immunity, 2015, 42, 406-417.	14.3	693
17	Oxygen sensing requires mitochondrial ROS but not oxidative phosphorylation. Cell Metabolism, 2005, 1, 409-414.	16.2	678
18	Hexokinase 2 Is Required for Tumor Initiation and Maintenance and Its Systemic Deletion Is Therapeutic in Mouse Models of Cancer. Cancer Cell, 2013, 24, 213-228.	16.8	678

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19	ROS-dependent signal transduction. Current Opinion in Cell Biology, 2015, 33, 8-13.	5.4	678
20	Cancer metabolism: looking forward. Nature Reviews Cancer, 2021, 21, 669-680.	28.4	676
21	Intracellular Signaling by Reactive Oxygen Species during Hypoxia in Cardiomyocytes. Journal of Biological Chemistry, 1998, 273, 11619-11624.	3.4	601
22	Cellular adaptation to hypoxia through hypoxia inducible factors and beyond. Nature Reviews Molecular Cell Biology, 2020, 21, 268-283.	37.0	595
23	Hexokinase-Mitochondria Interaction Mediated by Akt Is Required to Inhibit Apoptosis in the Presence or Absence of Bax and Bak. Molecular Cell, 2004, 16, 819-830.	9.7	592
24	Mitochondrial reactive oxygen species and cancer. Cancer & Metabolism, 2014, 2, 17.	5.0	574
25	Mitochondrial Complex III ROS Regulate Adipocyte Differentiation. Cell Metabolism, 2011, 14, 537-544.	16.2	550
26	Circadian Clock NAD ⁺ Cycle Drives Mitochondrial Oxidative Metabolism in Mice. Science, 2013, 342, 1243417.	12.6	525
27	The Qo site of the mitochondrial complex III is required for the transduction of hypoxic signaling via reactive oxygen species production. Journal of Cell Biology, 2007, 177, 1029-1036.	5.2	510
28	Minimizing Oxidation and Stable Nanoscale Dispersion Improves the Biocompatibility of Graphene in the Lung. Nano Letters, 2011, 11, 5201-5207.	9.1	480
29	Bcl-xL Prevents Cell Death following Growth Factor Withdrawal by Facilitating Mitochondrial ATP/ADP Exchange. Molecular Cell, 1999, 3, 159-167.	9.7	476
30	We need to talk about the Warburg effect. Nature Metabolism, 2020, 2, 127-129.	11.9	476
31	Role of Oxidants in NF-ÎºB Activation and TNF-Î± Gene Transcription Induced by Hypoxia and Endotoxin. Journal of Immunology, 2000, 165, 1013-1021.	0.8	472
32	Defining roles of specific reactive oxygen species (ROS) in cell biology and physiology. Nature Reviews Molecular Cell Biology, 2022, 23, 499-515.	37.0	469
33	The role of nuclear lamin B1 in cell proliferation and senescence. Genes and Development, 2011, 25, 2579-2593.	5.9	417
34	Mitochondria as signaling organelles. BMC Biology, 2014, 12, 34.	3.8	413
35	TCA Cycle and Mitochondrial Membrane Potential Are Necessary for Diverse Biological Functions. Molecular Cell, 2016, 61, 199-209.	9.7	396
36	Evolution of Mitochondria as Signaling Organelles. Cell Metabolism, 2015, 22, 204-206.	16.2	395

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37	The Two Faces of Reactive Oxygen Species in Cancer. Annual Review of Cancer Biology, 2017, 1, 79-98.	4.5	395
38	Loss of the SdhB, but Not the SdhA, Subunit of Complex II Triggers Reactive Oxygen Species-Dependent Hypoxia-Inducible Factor Activation and Tumorigenesis. Molecular and Cellular Biology, 2008, 28, 718-731.	2.3	392
39	Targeting antioxidants for cancer therapy. Biochemical Pharmacology, 2014, 92, 90-101.	4.4	370
40	Model for Hypoxic Pulmonary Vasoconstriction Involving Mitochondrial Oxygen Sensing. Circulation Research, 2001, 88, 1259-1266.	4.5	345
41	Cellular oxygen sensing by mitochondria: old questions, new insight. Journal of Applied Physiology, 2000, 88, 1880-1889.	2.5	344
42	Targeting glucose metabolism for cancer therapy. Journal of Experimental Medicine, 2012, 209, 211-215.	8.5	333
43	Hypoxia. 2. Hypoxia regulates cellular metabolism. American Journal of Physiology - Cell Physiology, 2011, 300, C385-C393.	4.6	324
44	Mitochondrial complex III is essential for suppressive function of regulatory T cells. Nature, 2019, 565, 495-499.	27.8	323
45	Mitochondrial Metabolism as a Target for Cancer Therapy. Cell Metabolism, 2020, 32, 341-352.	16.2	323
46	Mitochondrial ROS regulation of proliferating cells. Free Radical Biology and Medicine, 2016, 100, 86-93.	2.9	316
47	Mitochondrial Reactive Oxygen Species Regulate Transforming Growth Factor-Î² Signaling. Journal of Biological Chemistry, 2013, 288, 770-777.	3.4	307
48	NF-ÎºB controls energy homeostasis and metabolic adaptation by upregulating mitochondrial respiration. Nature Cell Biology, 2011, 13, 1272-1279.	10.3	306
49	Mitochondrial control of immunity: beyond ATP. Nature Reviews Immunology, 2017, 17, 608-620.	22.7	306
50	Oxidation of Alpha-Ketoglutarate Is Required for Reductive Carboxylation in Cancer Cells with Mitochondrial Defects. Cell Reports, 2014, 7, 1679-1690.	6.4	281
51	Mitochondrial Reactive Oxygen Species Promote Epidermal Differentiation and Hair Follicle Development. Science Signaling, 2013, 6, ra8.	3.6	276
52	Hypoxic activation of AMPK is dependent on mitochondrial ROS but independent of an increase in AMP/ATP ratio. Free Radical Biology and Medicine, 2009, 46, 1386-1391.	2.9	269
53	Mitochondrial reactive oxygen species regulate hypoxic signaling. Current Opinion in Cell Biology, 2009, 21, 894-899.	5.4	267
54	Ambient particulate matter accelerates coagulation via an IL-6â€"dependent pathway. Journal of Clinical Investigation, 2007, 117, 2952-2961.	8.2	256

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55	Mitochondrial Reactive Oxygen Species Activation of p38 Mitogen-Activated Protein Kinase Is Required for Hypoxia Signaling. Molecular and Cellular Biology, 2005, 25, 4853-4862.	2.3	245
56	The Proto-oncometabolite Fumarate Binds Glutathione to Amplify ROS-Dependent Signaling. Molecular Cell, 2013, 51, 236-248.	9.7	244
57	The mitochondrial respiratory chain is essential for haematopoietic stem cell function. Nature Cell Biology, 2017, 19, 614-625.	10.3	244
58	Hypoxia-induced endocytosis of Na,K-ATPase in alveolar epithelial cells is mediated by mitochondrial reactive oxygen species and PKC-Î¶. Journal of Clinical Investigation, 2003, 111, 1057-1064.	8.2	244
59	Reactive oxygen species-dependent signaling regulates cancer. Cellular and Molecular Life Sciences, 2009, 66, 3663-3673.	5.4	241
60	Metabolic regulation of stem cell function in tissue homeostasis and organismal ageing. Nature Cell Biology, 2016, 18, 823-832.	10.3	238
61	The cellular basis for diverse responses to oxygen. Free Radical Biology and Medicine, 2007, 42, 165-174.	2.9	235
62	Efferocytosis Fuels Requirements of Fatty Acid Oxidation and the Electron Transport Chain to Polarize Macrophages for Tissue Repair. Cell Metabolism, 2019, 29, 443-456.e5.	16.2	233
63	Hypoxic but not anoxic stabilization of HIF-1Î± requires mitochondrial reactive oxygen species. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2002, 283, L922-L931.	2.9	230
64	Intrinsic Mechanism of Estradiol-Induced Apoptosis in Breast Cancer Cells Resistant to Estrogen Deprivation. Journal of the National Cancer Institute, 2005, 97, 1746-1759.	6.3	229
65	Follicle-stimulating Hormone Activation of Hypoxia-inducible Factor-1 by the Phosphatidylinositol 3-Kinase/AKT/Ras Homolog Enriched in Brain (Rheb)/Mammalian Target of Rapamycin (mTOR) Pathway Is Necessary for Induction of Select Protein Markers of Follicular Differentiation. Journal of Biological Chemistry, 2004, 279, 19431-19440.	3.4	224
66	Menadione triggers cell death through ROS-dependent mechanisms involving PARP activation without requiring apoptosis. Free Radical Biology and Medicine, 2010, 49, 1925-1936.	2.9	213
67	Mitochondrial ubiquinol oxidation is necessary for tumour growth. Nature, 2020, 585, 288-292.	27.8	205
68	Mitochondrial Reactive Oxygen Species Trigger Hypoxia-Inducible Factor-Dependent Extension of the Replicative Life Span during Hypoxia. Molecular and Cellular Biology, 2007, 27, 5737-5745.	2.3	202
69	HIF-1Î± Is a Metabolic Switch between Glycolytic-Driven Migration and Oxidative Phosphorylation-Driven Immunosuppression of Tregs in Glioblastoma. Cell Reports, 2019, 27, 226-237.e4.	6.4	197
70	PTEN regulates p300-dependent hypoxia-inducible factor 1 transcriptional activity through Forkhead transcription factor 3a (FOXO3a). Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2622-2627.	7.1	193
71	Serine Metabolism Supports Macrophage IL-1Î² Production. Cell Metabolism, 2019, 29, 1003-1011.e4.	16.2	192
72	Reactive Oxygen Species Are Downstream Products of TRAF-mediated Signal Transduction. Journal of Biological Chemistry, 2001, 276, 42728-42736.	3.4	174

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73	Targeting SOD1 reduces experimental nonâ€“small-cell lung cancer. Journal of Clinical Investigation, 2014, 124, 117-128.	8.2	172
74	The Promise and Perils of Antioxidants for Cancer Patients. New England Journal of Medicine, 2014, 371, 177-178.	27.0	169
75	Cancer-Associated IDH1 Promotes Growth and Resistance to Targeted Therapies in the Absence of Mutation. Cell Reports, 2017, 19, 1858-1873.	6.4	164
76	Cellular Respiration during Hypoxia. Journal of Biological Chemistry, 1997, 272, 18808-18816.	3.4	163
77	Bcl-2 Family Members and Functional Electron Transport Chain Regulate Oxygen Deprivation-Induced Cell Death. Molecular and Cellular Biology, 2002, 22, 94-104.	2.3	159
78	Reactive Oxygen Species Are Required for Hyperoxia-induced Bax Activation and Cell Death in Alveolar Epithelial Cells. Journal of Biological Chemistry, 2004, 279, 6753-6760.	3.4	154
79	Oxygen deprivation induced cell death: an update. Apoptosis: an International Journal on Programmed Cell Death, 2002, 7, 475-482.	4.9	153
80	Mitochondria as Signaling Organelles Control Mammalian Stem Cell Fate. Cell Stem Cell, 2021, 28, 394-408.	11.1	151
81	Blue Journal Conference. Aging and Susceptibility to Lung Disease. American Journal of Respiratory and Critical Care Medicine, 2015, 191, 261-269.	5.6	149
82	Redox regulation of p53 during hypoxia. Oncogene, 2000, 19, 3840-3848.	5.9	148
83	AMP-activated protein kinase regulates CO2-induced alveolar epithelial dysfunction in rats and human cells by promoting Na,K-ATPase endocytosis. Journal of Clinical Investigation, 2008, 118, 752-62.	8.2	146
84	Elevated CO2 Levels Cause Mitochondrial Dysfunction and Impair Cell Proliferation. Journal of Biological Chemistry, 2011, 286, 37067-37076.	3.4	145
85	Hibernation during Hypoxia in Cardiomyocytes. Journal of Biological Chemistry, 1998, 273, 3320-3326.	3.4	143
86	Mitochondrial complex III is necessary for endothelial cell proliferation during angiogenesis. Nature Metabolism, 2019, 1, 158-171.	11.9	141
87	Are Metformin Doses Used in Murine Cancer Models Clinically Relevant?. Cell Metabolism, 2016, 23, 569-570.	16.2	140
88	Mitochondrial Metabolism and Cancer. Annals of the New York Academy of Sciences, 2009, 1177, 66-73.	3.8	138
89	A CRISPR screen identifies a pathway required for paraquat-induced cell death. Nature Chemical Biology, 2017, 13, 1274-1279.	8.0	138
90	Hypoxia Leads to Na,K-ATPase Downregulation via Ca²⁺ Release-Activated Ca²⁺ Channels and AMPK Activation. Molecular and Cellular Biology, 2011, 31, 3546-3556.	2.3	127

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91	Regulation of redox balance in cancer and T cells. Journal of Biological Chemistry, 2018, 293, 7499-7507.	3.4	127
92	Regulation of mitochondrial biogenesis in erythropoiesis by mTORC1-mediated proteinÂtranslation. Nature Cell Biology, 2017, 19, 626-638.	10.3	126
93	Molecular Oxygen Modulates Cytochrome c Oxidase Function. Journal of Biological Chemistry, 1996, 271, 18672-18677.	3.4	123
94	Mitochondrial Genome Instability and ROS Enhance Intestinal Tumorigenesis in APC Mice. American Journal of Pathology, 2012, 180, 24-31.	3.8	123
95	Warburg Effect and Redox Balance. Science, 2011, 334, 1219-1220.	12.6	122
96	Mitochondrial Complex III-generated Oxidants Activate ASK1 and JNK to Induce Alveolar Epithelial Cell Death following Exposure to Particulate Matter Air Pollution. Journal of Biological Chemistry, 2009, 284, 2176-2186.	3.4	117
97	Mitochondrial regulation of oxygen sensing. Mitochondrion, 2005, 5, 322-332.	3.4	114
98	ROS Links Glucose Metabolism to Breast Cancer Stem Cell and EMT Phenotype. Cancer Cell, 2013, 23, 265-267.	16.8	114
99	Mitochondrial redox signaling enables repair of injured skeletal muscle cells. Science Signaling, 2017, 10, .	3.6	112
100	A chemical genomics screen highlights the essential role of mitochondria in HIF-1 regulation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 174-179.	7.1	111
101	Î±1-AMP-Activated Protein Kinase Regulates Hypoxia-Induced Na,K-ATPase Endocytosis via Direct Phosphorylation of Protein Kinase CÎ¶. Molecular and Cellular Biology, 2009, 29, 3455-3464.	2.3	107
102	Mitochondrial electron transport chain is necessary for NLRP3 inflammasome activation. Nature Immunology, 2022, 23, 692-704.	14.5	107
103	Î²2-Adrenergic agonists augment air pollutionâ€"induced IL-6 release and thrombosis. Journal of Clinical Investigation, 2014, 124, 2935-2946.	8.2	106
104	Hypoxia-Mediated Degradation of Na,K-ATPase via Mitochondrial Reactive Oxygen Species and the Ubiquitin-Conjugating System. Circulation Research, 2006, 98, 1314-1322.	4.5	105
105	microRNA-31/factor-inhibiting hypoxia-inducible factor 1 nexus regulates keratinocyte differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14030-14034.	7.1	102
106	Transforming Growth Factor (TGF)-Î² Promotes de Novo Serine Synthesis for Collagen Production. Journal of Biological Chemistry, 2016, 291, 27239-27251.	3.4	102
107	Leptin Resistance Protects Mice from Hyperoxia-induced Acute Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2007, 175, 587-594.	5.6	101
108	Nitric Oxide Induces Cell Death by Regulating Anti-Apoptotic BCL-2 Family Members. PLoS ONE, 2009, 4, e7059.	2.5	101

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109	Proapoptotic Bid is required for pulmonary fibrosis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4604-4609.	7.1	99
110	ROS Promotes Cancer Cell Survival through Calcium Signaling. Cancer Cell, 2018, 33, 949-951.	16.8	98
111	Fumarate is a terminal electron acceptor in the mammalian electron transport chain. Science, 2021, 374, 1227-1237.	12.6	96
112	Matrix Metalloproteinase (MMP)-1 Induces Lung Alveolar Epithelial Cell Migration and Proliferation, Protects from Apoptosis, and Represses Mitochondrial Oxygen Consumption. Journal of Biological Chemistry, 2013, 288, 25964-25975.	3.4	94
113	Compound C inhibits hypoxic activation of HIFâ€1 independent of AMPK. FEBS Letters, 2007, 581, 5727-5731.	2.8	93
114	Epithelial Cell Death Is an Important Contributor to Oxidant-mediated Acute Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2011, 183, 1043-1054.	5.6	93
115	Leptin Promotes Fibroproliferative Acute Respiratory Distress Syndrome by Inhibiting Peroxisome Proliferatorâ€"activated Receptor-Î³. American Journal of Respiratory and Critical Care Medicine, 2011, 183, 1490-1498.	5.6	91
116	Hyperoxia-induced Apoptosis Does Not Require Mitochondrial Reactive Oxygen Species and Is Regulated by Bcl-2 Proteins. Journal of Biological Chemistry, 2002, 277, 15654-15660.	3.4	89
117	The lung microenvironment shapes a dysfunctional response of alveolar macrophages in aging. Journal of Clinical Investigation, 2021, 131, .	8.2	86
118	Mitochondrial oxygen sensing: regulation of hypoxia-inducible factor by mitochondrial generated reactive oxygen species. Essays in Biochemistry, 2007, 43, 17-28.	4.7	85
119	Glycolysis. Cold Spring Harbor Perspectives in Biology, 2021, 13, a040535.	5.5	84
120	Mitochondrial Regulation of Oxygen Sensing. Advances in Experimental Medicine and Biology, 2010, 661, 339-354.	1.6	79
121	Targeting Tumor Mitochondrial Metabolism Overcomes Resistance to Antiangiogenics. Cell Reports, 2016, 15, 2705-2718.	6.4	78
122	Proteasomal inhibition after injury prevents fibrosis by modulating TGF-Î²₁signalling. Thorax, 2012, 67, 139-146.	5.6	77
123	Mitochondrial nicotinamide adenine dinucleotide reduced (NADH) oxidation links the tricarboxylic acid (TCA) cycle with methionine metabolism and nuclear DNA methylation. PLoS Biology, 2018, 16, e2005707.	5.6	77
124	Metformin Targets Mitochondrial Electron Transport to Reduce Air-Pollution-Induced Thrombosis. Cell Metabolism, 2019, 29, 335-347.e5.	16.2	75
125	TOR Signaling Couples Oxygen Sensing to Lifespan in C.Âelegans. Cell Reports, 2014, 9, 9-15.	6.4	74
126	Mitochondrial Complex I Inhibitors Expose a Vulnerability for Selective Killing of Pten-Null Cells. Cell Reports, 2018, 23, 58-67.	6.4	73

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127	Active transforming growth factor-Î²1 activates the procollagen I promoter in patients with acute lung injury. Intensive Care Medicine, 2005, 31, 121-128.	8.2	72
128	NAD+ Regeneration Rescues Lifespan, but Not Ataxia, in a Mouse Model of Brain Mitochondrial Complex I Dysfunction. Cell Metabolism, 2020, 32, 301-308.e6.	16.2	72
129	Title is missing!. Molecular and Cellular Biochemistry, 2002, 234/235, 153-160.	3.1	71
130	The Mitochondria-Regulated Death Pathway Mediates Asbestos-Induced Alveolar Epithelial Cell Apoptosis. American Journal of Respiratory Cell and Molecular Biology, 2003, 28, 241-248.	2.9	71
131	ROS. Current Biology, 2013, 23, R100-R102.	3.9	71
132	Mitochondria control acute and chronic responses to hypoxia. Experimental Cell Research, 2017, 356, 217-222.	2.6	69
133	Mitochondrial catalase overexpressed transgenic mice are protected against lung fibrosis in part via preventing alveolar epithelial cell mitochondrial DNA damage. Free Radical Biology and Medicine, 2016, 101, 482-490.	2.9	68
134	Reactive oxygen species as signaling molecules in the development of lung fibrosis. Translational Research, 2017, 190, 61-68.	5.0	67
135	Death Induced by CD95 or CD95 Ligand Elimination. Cell Reports, 2014, 7, 208-222.	6.4	66
136	Interâ€connection between mitochondria and HIFs. Journal of Cellular and Molecular Medicine, 2010, 14, 795-804.	3.6	64
137	P53 Mediates Amosite Asbestosâ€“Induced Alveolar Epithelial Cell Mitochondria-Regulated Apoptosis. American Journal of Respiratory Cell and Molecular Biology, 2006, 34, 443-452.	2.9	62
138	Asbestos-Induced Alveolar Epithelial Cell Apoptosis. The Role of Endoplasmic Reticulum Stress Response. American Journal of Respiratory Cell and Molecular Biology, 2013, 49, 892-901.	2.9	61
139	The kinase Jnk2 promotes stress-induced mitophagy by targeting the small mitochondrial form of the tumor suppressor ARF for degradation. Nature Immunology, 2015, 16, 458-466.	14.5	60
140	The mitochondrial retrograde signaling regulates Wnt signaling to promote tumorigenesis in colon cancer. Cell Death and Differentiation, 2019, 26, 1955-1969.	11.2	60
141	IDH3Î± regulates one-carbon metabolism in glioblastoma. Science Advances, 2019, 5, eaat0456.	10.3	59
142	Hyperoxiaâ€induced premature senescence requires p53 and pRb, but not mitochondrial matrix ROS. FASEB Journal, 2009, 23, 783-794.	0.5	57
143	The Intrinsic Apoptotic Pathway Is Required for Lipopolysaccharide-Induced Lung Endothelial Cell Death. Journal of Immunology, 2007, 179, 1834-1841.	0.8	56
144	Label-free imaging of the native, living cellular nanoarchitecture using partial-wave spectroscopic microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6372-E6381.	7.1	56

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145	The Intersection of Aging Biology and the Pathobiology of Lung Diseases: A Joint NHLBI/NIA Workshop. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, 1492-1500.	3.6	55
146	Metabolic changes in cancer cells upon suppression of MYC. Cancer & Metabolism, 2013, 1, 7.	5.0	54
147	MicroRNAâ€31 targets FIHâ€1 to positively regulate corneal epithelial glycogen metabolism. FASEB Journal, 2012, 26, 3140-3147.	0.5	53
148	Carbohydrate Metabolism. Cold Spring Harbor Perspectives in Biology, 2021, 13, a040568.	5.5	53
149	Mitochondrial Regulation of Cell Survival and Death During Low-Oxygen Conditions. Antioxidants and Redox Signaling, 2009, 11, 2673-2683.	5.4	51
150	Mitochondrial One-Carbon Metabolism Maintains Redox Balance during Hypoxia. Cancer Discovery, 2014, 4, 1371-1373.	9.4	51
151	Revisiting vitamin C and cancer. Science, 2015, 350, 1317-1318.	12.6	51
152	Requirement of Mitochondrial Transcription Factor A in Tissue-Resident Regulatory T Cell Maintenance and Function. Cell Reports, 2019, 28, 159-171.e4.	6.4	51
153	Mitochondrial complex III: An essential component of universal oxygen sensing machinery?. Respiratory Physiology and Neurobiology, 2010, 174, 175-181.	1.6	49
154	c-Myc Sensitization to Oxygen Deprivation-induced Cell Death Is Dependent on Bax/Bak, but Is Independent of p53 and Hypoxia-inducible Factor-1. Journal of Biological Chemistry, 2004, 279, 4305-4312.	3.4	48
155	Beneficial Effects of Myo-Inositol Oxygenase Deficiency in Cisplatin-Induced AKI. Journal of the American Society of Nephrology: JASN, 2017, 28, 1421-1436.	6.1	48
156	The Mitochondrial Respiratory Chain Is Required for Organismal Adaptation to Hypoxia. Cell Reports, 2016, 15, 451-459.	6.4	45
157	Polyamines drive myeloid cell survival by buffering intracellular pH to promote immunosuppression in glioblastoma. Science Advances, 2021, 7, .	10.3	45
158	Hypoxia Sensitizes Cells to Nitric Oxide-induced Apoptosis. Journal of Biological Chemistry, 2002, 277, 16067-16074.	3.4	44
159	Intermediate filament aggregates cause mitochondrial dysmotility and increase energy demands in giant axonal neuropathy. Human Molecular Genetics, 2016, 25, 2143-2157.	2.9	44
160	Waste Not, Want Not: Lactate Oxidation Fuels the TCA Cycle. Cell Metabolism, 2017, 26, 803-804.	16.2	44
161	Keratinocyte growth factor expression is suppressed in early acute lung injury/acute respiratory distress syndrome by smad and c-Abl pathways*. Critical Care Medicine, 2009, 37, 1678-1684.	0.9	43
162	Essentiality of fatty acid synthase in the 2D to anchorage-independent growth transition in transforming cells. Nature Communications, 2019, 10, 5011.	12.8	43

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163	Nitric oxide during ischemia attenuates oxidant stress and cell death during ischemia and reperfusion in cardiomyocytes. Free Radical Biology and Medicine, 2007, 43, 590-599.	2.9	42
164	Mitochondrial metabolism as a regulator of keratinocyte differentiation. Cellular Logistics, 2013, 3, e25456.	0.9	42
165	ER-associated ubiquitin ligase HRD1 programs liver metabolism by targeting multiple metabolic enzymes. Nature Communications, 2018, 9, 3659.	12.8	42
166	Hexokinase 1 cellular localization regulates the metabolic fate of glucose. Molecular Cell, 2022, 82, 1261-1277.e9.	9.7	42
167	Suppressing Mitochondrial Respiration Is Critical for Hypoxia Tolerance in the Fetal Growth Plate. Developmental Cell, 2019, 49, 748-763.e7.	7.0	41
168	Loss of Mcl-1 Protein and Inhibition of Electron Transport Chain Together Induce Anoxic Cell Death. Molecular and Cellular Biology, 2007, 27, 1222-1235.	2.3	40
169	Hepatic HKDC1 Expression Contributes to Liver Metabolism. Endocrinology, 2019, 160, 313-330.	2.8	40
170	Mitochondrial reactive oxygen species are required for hypoxiaâ€induced degradation of keratin intermediate filaments. FASEB Journal, 2010, 24, 799-809.	0.5	39
171	Mitochondrial stress causes neuronal dysfunction via an ATF4-dependent increase in L-2-hydroxyglutarate. Journal of Cell Biology, 2019, 218, 4007-4016.	5.2	38
172	Role of Bcl-2 Family Members in Anoxia Induced Cell Death. Cell Cycle, 2007, 6, 807-809.	2.6	37
173	Proapoptotic Noxa is required for particulate matterâ€induced cell death and lung inflammation. FASEB Journal, 2009, 23, 2055-2064.	0.5	36
174	Angiostatin(4.5)-mediated apoptosis of vascular endothelial cells. Cancer Research, 2003, 63, 4275-80.	0.9	36
175	Hypoxiaâ€mediated Naâ€Kâ€ATPase degradation requires von Hippel Lindau protein. FASEB Journal, 2008, 22, 1335-1342.	0.5	35
176	Mitochondrial acetyl-CoA reversibly regulates locus-specific histone acetylation and gene expression. Life Science Alliance, 2019, 2, e201800228.	2.8	35
177	HOIL-1L Functions as the PKCÎ¶ Ubiquitin Ligase to Promote Lung Tumor Growth. American Journal of Respiratory and Critical Care Medicine, 2014, 190, 688-698.	5.6	34
178	Mitochondrial Metabolism Regulation of T Cellâ€"Mediated Immunity. Annual Review of Immunology, 2021, 39, 395-416.	21.8	34
179	Hexokinase 2 is dispensable for T cell-dependent immunity. Cancer & Metabolism, 2018, 6, 10.	5.0	33
180	Bronchoalveolar lavage fluid from patients with acute lung injury/acute respiratory distress syndrome induces myofibroblast differentiation. Critical Care Medicine, 2007, 35, 842-848.	0.9	32

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181	Hypoxic conformance of metabolism in primary rat hepatocytes: A model of hepatic hibernation. Hepatology, 2007, 45, 455-464.	7.3	32
182	Mitochondria and cancer. Cancer & Metabolism, 2014, 2, 8.	5.0	32
183	Mitochondria. Cold Spring Harbor Perspectives in Biology, 2021, 13, a040543.	5.5	32
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