Jean-Claude Martinou

List of Publications by Year
in descending order

71 papers	17,106 citations	61984 43 h-index	95266 68 g-index
76 all docs	76 docs citations	76 times ranked	21615 citing authors

#	Article	IF	Citations
1	Separation and determination of cysteine enantiomers in plasma after derivatization with 4-fluoro-7-nitrobenzofurazan. Journal of Pharmaceutical and Biomedical Analysis, 2022, 209, 114539.	2.8	8
2	Paradoxical neuronal hyperexcitability in a mouse model of mitochondrial pyruvate import deficiency. ELife, 2022, 11, .	6.0	21
3	RNA Granules in the Mitochondria and Their Organization under Mitochondrial Stresses. International Journal of Molecular Sciences, 2021, 22, 9502.	4.1	23
4	The FASTK family proteins fine-tune mitochondrial RNA processing. PLoS Genetics, 2021, 17, e1009873.	3.5	16
5	Visualization of Mitochondrial RNA Granules in Cultured Cells Using 5-Bromouridine Labeling. Methods in Molecular Biology, 2021, 2192, 69-73.	0.9	3
6	Development and validation of a chiral UHPLC-MS method for the analysis of cysteine enantiomers in biological samples. Journal of Pharmaceutical and Biomedical Analysis, 2020, 177, 112841.	2.8	33
7	The mitochondrial carrier pathway transports non-canonical substrates with an odd number of transmembrane segments. BMC Biology, 2020, 18, 2.	3.8	34
8	The Multifaceted Pyruvate Metabolism: Role of the Mitochondrial Pyruvate Carrier. Biomolecules, 2020, 10, 1068.	4.0	65
9	Mitochondrial RNA granules are fluid condensates positioned by membrane dynamics. Nature Cell Biology, 2020, 22, 1180-1186.	10.3	39
10	In vivo stabilization of OPA1 in hepatocytes potentiates mitochondrial respiration and gluconeogenesis in a prohibitin-dependent way. Journal of Biological Chemistry, 2019, 294, 12581-12598.	3.4	33
11	Feasibility of neurochemically profiling mouse embryonic brain and its development in utero using 1 H MRS at 14.1ÂT. NMR in Biomedicine, 2019, 32, e4163.	2.8	1
12	Lethal Poisoning of Cancer Cells by Respiratory Chain Inhibition plus Dimethyl Î±-Ketoglutarate. Cell Reports, 2019, 27, 820-834.e9.	6.4	36
13	The yeast mitochondrial pyruvate carrier is a heteroâ€dimer in its functional state. EMBO Journal, 2019, 38, .	7.8	45
14	1-Deoxydihydroceramide causes anoxic death by impairing chaperonin-mediated protein folding. Nature Metabolism, 2019, 1, 996-1008.	11.9	15
15	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
16	Mitochondria-specific photoactivation to monitor local sphingosine metabolism and function. ELife, 2018, 7, .	6.0	57
17	The Pseudouridine Synthase RPUSD4 Is an Essential Component of Mitochondrial RNA Granules. Journal of Biological Chemistry, 2017, 292, 4519-4532.	3.4	79
18	FASTKD1 and FASTKD4 have opposite effects on expression of specific mitochondrial RNAs, depending upon their endonuclease-like RAP domain. Nucleic Acids Research, 2017, 45, 6135-6146.	14.5	41

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19	The FASTK family of proteins: emerging regulators of mitochondrial RNA biology. Nucleic Acids Research, 2017, 45, 10941-10947.	14.5	62
20	Efficient Mitochondrial Glutamine Targeting Prevails Over Glioblastoma Metabolic Plasticity. Clinical Cancer Research, 2017, 23, 6292-6304.	7.0	69
21	MPC1-like Is a Placental Mammal-specific Mitochondrial Pyruvate Carrier Subunit Expressed in Postmeiotic Male Germ Cells. Journal of Biological Chemistry, 2016, 291, 16448-16461.	3.4	30
22	TCTP contains a BH3-like domain, which instead of inhibiting, activates Bcl-xL. Scientific Reports, 2016, 6, 19725.	3.3	39
23	Role of FAST Kinase Domains 3 (FASTKD3) in Post-transcriptional Regulation of Mitochondrial Gene Expression. Journal of Biological Chemistry, 2016, 291, 25877-25887.	3.4	37
24	Solange Desagher and Jean-Claude Martinou: Executioners of Cell Death. Trends in Cell Biology, 2016, 26, 560-562.	7.9	0
25	Channels and transporters in cell metabolism. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 2359-2361.	4.1	3
26	The mitochondrial pyruvate carrier in health and disease: To carry or not to carry?. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 2436-2442.	4.1	91
27	Mitochondrial RNA granules: Compartmentalizing mitochondrial gene expression. Journal of Cell Biology, 2016, 212, 611-614.	5.2	85
28	Embryonic Lethality of Mitochondrial Pyruvate Carrier 1 Deficient Mouse Can Be Rescued by a Ketogenic Diet. PLoS Genetics, 2016, 12, e1006056.	3.5	56
29	Regulation of mitochondrial pyruvate uptake by alternative pyruvate carrier complexes. EMBO Journal, 2015, 34, 911-924.	7.8	98
30	C11orf83, a Mitochondrial Cardiolipin-Binding Protein Involved in bc₁ Complex Assembly and Supercomplex Stabilization. Molecular and Cellular Biology, 2015, 35, 1139-1156.	2.3	62
31	A Mitochondria-Specific Isoform of FASTK Is Present In Mitochondrial RNA Granules and Regulates Gene Expression and Function. Cell Reports, 2015, 10, 1110-1121.	6.4	77
32	Mechanism-Based Markers of Drug-Induced Liver Injury to Improve the Physiological Relevance and Predictivity of In Vitro Models. Applied in Vitro Toxicology, 2015, 1, 175-186.	1.1	5
33	Monitoring Mitochondrial Pyruvate Carrier Activity in Real Time Using a BRET-Based Biosensor: Investigation of the Warburg Effect. Molecular Cell, 2015, 59, 491-501.	9.7	76
34	Mitochondrial pyruvate import and its effects on homeostasis. Current Opinion in Cell Biology, 2015, 33, 35-41.	5.4	57
35	Non-Microtubular Localizations of Microtubule-Associated Protein 6 (MAP6). PLoS ONE, 2014, 9, e114905.	2.5	10
36	A human mitochondrial poly(A) polymerase mutation reveals the complexities of post-transcriptional mitochondrial gene expression. Human Molecular Genetics, 2014, 23, 6345-6355.	2.9	63

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37	TAT-RasGAP317â€“326-mediated tumor cell death sensitization can occur independently of Bax and Bak. Apoptosis: an International Journal on Programmed Cell Death, 2014, 19, 719-733.	4.9	10
38	Involvement of cardiolipin in tBID-induced activation of BAX during apoptosis. Chemistry and Physics of Lipids, 2014, 179, 70-74.	3.2	47
39	MLKL Compromises Plasma Membrane Integrity by Binding to Phosphatidylinositol Phosphates. Cell Reports, 2014, 7, 971-981.	6.4	656
40	Specific Interaction with Cardiolipin Triggers Functional Activation of Dynamin-Related Protein 1. PLoS ONE, 2014, 9, e102738.	2.5	131
41	Where Killers Meet--Permeabilization of the Outer Mitochondrial Membrane during Apoptosis. Cold Spring Harbor Perspectives in Biology, 2013, 5, a011106-a011106.	5.5	72
42	TRAIL promotes membrane blebbing, detachment and migration of cells displaying a dysfunctional intrinsic pathway of apoptosis. Apoptosis: an International Journal on Programmed Cell Death, 2013, 18, 324-336.	4.9	26
43	GRSF1 Regulates RNA Processing in Mitochondrial RNA Granules. Cell Metabolism, 2013, 17, 399-410.	16.2	190
44	Intermembrane Space Proteome of Yeast Mitochondria. Molecular and Cellular Proteomics, 2012, 11, 1840-1852.	3.8	134
45	Identification and Functional Expression of the Mitochondrial Pyruvate Carrier. Science, 2012, 337, 93-96.	12.6	588
46	Sensitization of (colon) cancer cells to death receptor related therapies. Cancer Biology and Therapy, 2012, 13, 458-466.	3.4	4
47	Mitochondria in Apoptosis: Bcl-2 Family Members and Mitochondrial Dynamics. Developmental Cell, 2011, 21, 92-101.	7.0	1,198
48	Expression of mitofusin 2R94Q in a transgenic mouse leads to Charcotâ€“Marieâ€“Tooth neuropathy type 2A. Brain, 2010, 133, 1460-1469.	7.6	102
49	Membrane Remodeling Induced by the Dynamin-Related Protein Drp1 Stimulates Bax Oligomerization. Cell, 2010, 142, 889-901.	28.9	360
50	Mitochondrial dynamics and cancer. Seminars in Cancer Biology, 2009, 19, 50-56.	9.6	149
51	Autophagy: Evolutionary and pathophysiological insights. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 1395-1396.	4.1	6
52	SLP-2 is required for stress-induced mitochondrial hyperfusion. EMBO Journal, 2009, 28, 1589-1600.	7.8	639
53	Mitochondrial Dynamics and Apoptosis: A Painful Separation. Developmental Cell, 2008, 15, 341-343.	7.0	37
54	Mitochondrial Dynamics: To be in Good Shape to Survive. Current Molecular Medicine, 2008, 8, 131-137.	1.3	62

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55	Preventing Mitochondrial Fission Impairs Mitochondrial Function and Leads to Loss of Mitochondrial DNA. PLoS ONE, 2008, 3, e3257.	2.5	363
56	Inhibiting the Mitochondrial Fission Machinery Does Not Prevent Bax/Bak-Dependent Apoptosis. Molecular and Cellular Biology, 2006, 26, 7397-7408.	2.3	215
57	hFis1, a Novel Component of the Mammalian Mitochondrial Fission Machinery. Journal of Biological Chemistry, 2003, 278, 36373-36379.	3.4	569
58	Fusion of mitochondria in mammalian cells is dependent on the mitochondrial inner membrane potential and independent of microtubules or actin. FEBS Letters, 2003, 538, 53-59.	2.8	109
59	Proteomic Analysis of the Mouse Liver Mitochondrial Inner Membrane. Journal of Biological Chemistry, 2003, 278, 41566-41571.	3.4	220
60	The Apoptotic Protein tBid Promotes Leakage by Altering Membrane Curvature. Journal of Biological Chemistry, 2002, 277, 32632-32639.	3.4	155
61	Bid induces cytochrome c-impermeable Bax channels in liposomes. Biochemical Journal, 2002, 363, 547.	3.7	44
62	Bid induces cytochrome c-impermeable Bax channels in liposomes. Biochemical Journal, 2002, 363, 547-552.	3.7	68
63	Direct evidence for membrane pore formation by the apoptotic protein Bax. Biochemical and Biophysical Research Communications, 2002, 298, 744-749.	2.1	100
64	Direct addition of BimL to mitochondria does not lead to cytochromecrelease. FEBS Letters, 2002, 522, 29-34.	2.8	41
65	Bax oligomerization is required for channel-forming activity in liposomes and to trigger cytochrome c release from mitochondria. Biochemical Journal, 2000, 345, 271.	3.7	200
66	Mitochondria as the central control point of apoptosis. Trends in Cell Biology, 2000, 10, 369-377.	7.9	1,739
67	Bid Induces the Oligomerization and Insertion of Bax into the Outer Mitochondrial Membrane. Molecular and Cellular Biology, 2000, 20, 929-935.	2.3	1,053
68	The Destabilization of Lipid Membranes Induced by the C-terminal Fragment of Caspase 8-cleaved Bid Is Inhibited by the N-terminal Fragment. Journal of Biological Chemistry, 2000, 275, 22713-22718.	3.4	119
69	Bid-induced Conformational Change of Bax Is Responsible for Mitochondrial Cytochrome c Release during Apoptosis. Journal of Cell Biology, 1999, 144, 891-901.	5.2	1,169
70	Inhibition of Bax Channel-Forming Activity by Bcl-2. Science, 1997, 277, 370-372.	12.6	1,004
71	Mechanisms of Mitochondrial Outer Membrane Permeabilization. Novartis Foundation Symposium, 0, , 170-182.	1.1	16