

Jean-Claude Martinou

List of Publications by Year in descending order

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71
papers

17,106
citations

71004

43
h-index

107981

68
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76
all docs

76
docs citations

76
times ranked

23509
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. <i>Cell Death and Differentiation</i> , 2018, 25, 486-541.	5.0	4,036
2	Mitochondria as the central control point of apoptosis. <i>Trends in Cell Biology</i> , 2000, 10, 369-377.	3.6	1,739
3	Mitochondria in Apoptosis: Bcl-2 Family Members and Mitochondrial Dynamics. <i>Developmental Cell</i> , 2011, 21, 92-101.	3.1	1,198
4	Bid-induced Conformational Change of Bax Is Responsible for Mitochondrial Cytochrome c Release during Apoptosis. <i>Journal of Cell Biology</i> , 1999, 144, 891-901.	2.3	1,169
5	Bid Induces the Oligomerization and Insertion of Bax into the Outer Mitochondrial Membrane. <i>Molecular and Cellular Biology</i> , 2000, 20, 929-935.	1.1	1,053
6	Inhibition of Bax Channel-Forming Activity by Bcl-2. <i>Science</i> , 1997, 277, 370-372.	6.0	1,004
7	MLKL Compromises Plasma Membrane Integrity by Binding to Phosphatidylinositol Phosphates. <i>Cell Reports</i> , 2014, 7, 971-981.	2.9	656
8	SLP-2 is required for stress-induced mitochondrial hyperfusion. <i>EMBO Journal</i> , 2009, 28, 1589-1600.	3.5	639
9	Identification and Functional Expression of the Mitochondrial Pyruvate Carrier. <i>Science</i> , 2012, 337, 93-96.	6.0	588
10	hFis1, a Novel Component of the Mammalian Mitochondrial Fission Machinery. <i>Journal of Biological Chemistry</i> , 2003, 278, 36373-36379.	1.6	569
11	Preventing Mitochondrial Fission Impairs Mitochondrial Function and Leads to Loss of Mitochondrial DNA. <i>PLoS ONE</i> , 2008, 3, e3257.	1.1	363
12	Membrane Remodeling Induced by the Dynamin-Related Protein Drp1 Stimulates Bax Oligomerization. <i>Cell</i> , 2010, 142, 889-901.	13.5	360
13	Proteomic Analysis of the Mouse Liver Mitochondrial Inner Membrane. <i>Journal of Biological Chemistry</i> , 2003, 278, 41566-41571.	1.6	220
14	Inhibiting the Mitochondrial Fission Machinery Does Not Prevent Bax/Bak-Dependent Apoptosis. <i>Molecular and Cellular Biology</i> , 2006, 26, 7397-7408.	1.1	215
15	Bax oligomerization is required for channel-forming activity in liposomes and to trigger cytochrome c release from mitochondria. <i>Biochemical Journal</i> , 2000, 345, 271.	1.7	200
16	GRSF1 Regulates RNA Processing in Mitochondrial RNA Granules. <i>Cell Metabolism</i> , 2013, 17, 399-410.	7.2	190
17	The Apoptotic Protein tBid Promotes Leakage by Altering Membrane Curvature. <i>Journal of Biological Chemistry</i> , 2002, 277, 32632-32639.	1.6	155
18	Mitochondrial dynamics and cancer. <i>Seminars in Cancer Biology</i> , 2009, 19, 50-56.	4.3	149

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19	Intermembrane Space Proteome of Yeast Mitochondria. <i>Molecular and Cellular Proteomics</i> , 2012, 11, 1840-1852.	2.5	134
20	Specific Interaction with Cardiolipin Triggers Functional Activation of Dynamin-Related Protein 1. <i>PLoS ONE</i> , 2014, 9, e102738.	1.1	131
21	The Destabilization of Lipid Membranes Induced by the C-terminal Fragment of Caspase 8-cleaved Bid Is Inhibited by the N-terminal Fragment. <i>Journal of Biological Chemistry</i> , 2000, 275, 22713-22718.	1.6	119
22	Fusion of mitochondria in mammalian cells is dependent on the mitochondrial inner membrane potential and independent of microtubules or actin. <i>FEBS Letters</i> , 2003, 538, 53-59.	1.3	109
23	Expression of mitofusin 2R94Q in a transgenic mouse leads to Charcot-Marie-Tooth neuropathy type 2A. <i>Brain</i> , 2010, 133, 1460-1469.	3.7	102
24	Direct evidence for membrane pore formation by the apoptotic protein Bax. <i>Biochemical and Biophysical Research Communications</i> , 2002, 298, 744-749.	1.0	100
25	Regulation of mitochondrial pyruvate uptake by alternative pyruvate carrier complexes. <i>EMBO Journal</i> , 2015, 34, 911-924.	3.5	98
26	The mitochondrial pyruvate carrier in health and disease: To carry or not to carry?. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 2436-2442.	1.9	91
27	Mitochondrial RNA granules: Compartmentalizing mitochondrial gene expression. <i>Journal of Cell Biology</i> , 2016, 212, 611-614.	2.3	85
28	The Pseudouridine Synthase RPUSD4 Is an Essential Component of Mitochondrial RNA Granules. <i>Journal of Biological Chemistry</i> , 2017, 292, 4519-4532.	1.6	79
29	A Mitochondria-Specific Isoform of FASTK Is Present In Mitochondrial RNA Granules and Regulates Gene Expression and Function. <i>Cell Reports</i> , 2015, 10, 1110-1121.	2.9	77
30	Monitoring Mitochondrial Pyruvate Carrier Activity in Real Time Using a BRET-Based Biosensor: Investigation of the Warburg Effect. <i>Molecular Cell</i> , 2015, 59, 491-501.	4.5	76
31	Where Killers Meet—Permeabilization of the Outer Mitochondrial Membrane during Apoptosis. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a011106-a011106.	2.3	72
32	Efficient Mitochondrial Glutamine Targeting Prevails Over Glioblastoma Metabolic Plasticity. <i>Clinical Cancer Research</i> , 2017, 23, 6292-6304.	3.2	69
33	Bid induces cytochrome c-impermeable Bax channels in liposomes. <i>Biochemical Journal</i> , 2002, 363, 547-552.	1.7	68
34	The Multifaceted Pyruvate Metabolism: Role of the Mitochondrial Pyruvate Carrier. <i>Biomolecules</i> , 2020, 10, 1068.	1.8	65
35	A human mitochondrial poly(A) polymerase mutation reveals the complexities of post-transcriptional mitochondrial gene expression. <i>Human Molecular Genetics</i> , 2014, 23, 6345-6355.	1.4	63
36	Mitochondrial Dynamics: To be in Good Shape to Survive. <i>Current Molecular Medicine</i> , 2008, 8, 131-137.	0.6	62

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37	C11orf83, a Mitochondrial Cardiolipin-Binding Protein Involved in $\text{bc}1$ Complex Assembly and Supercomplex Stabilization. <i>Molecular and Cellular Biology</i> , 2015, 35, 1139-1156.	1.1	62
38	The FASTK family of proteins: emerging regulators of mitochondrial RNA biology. <i>Nucleic Acids Research</i> , 2017, 45, 10941-10947.	6.5	62
39	Mitochondrial pyruvate import and its effects on homeostasis. <i>Current Opinion in Cell Biology</i> , 2015, 33, 35-41.	2.6	57
40	Mitochondria-specific photoactivation to monitor local sphingosine metabolism and function. <i>ELife</i> , 2018, 7, .	2.8	57
41	Embryonic Lethality of Mitochondrial Pyruvate Carrier 1 Deficient Mouse Can Be Rescued by a Ketogenic Diet. <i>PLoS Genetics</i> , 2016, 12, e1006056.	1.5	56
42	Involvement of cardiolipin in tBID-induced activation of BAX during apoptosis. <i>Chemistry and Physics of Lipids</i> , 2014, 179, 70-74.	1.5	47
43	The yeast mitochondrial pyruvate carrier is a heterodimer in its functional state. <i>EMBO Journal</i> , 2019, 38, .	3.5	45
44	Bid induces cytochrome c-impermeable Bax channels in liposomes. <i>Biochemical Journal</i> , 2002, 363, 547.	1.7	44
45	Direct addition of BimL to mitochondria does not lead to cytochrome c release. <i>FEBS Letters</i> , 2002, 522, 29-34.	1.3	41
46	FASTKD1 and FASTKD4 have opposite effects on expression of specific mitochondrial RNAs, depending upon their endonuclease-like RAP domain. <i>Nucleic Acids Research</i> , 2017, 45, 6135-6146.	6.5	41
47	TCTP contains a BH3-like domain, which instead of inhibiting, activates Bcl-xL. <i>Scientific Reports</i> , 2016, 6, 19725.	1.6	39
48	Mitochondrial RNA granules are fluid condensates positioned by membrane dynamics. <i>Nature Cell Biology</i> , 2020, 22, 1180-1186.	4.6	39
49	Mitochondrial Dynamics and Apoptosis: A Painful Separation. <i>Developmental Cell</i> , 2008, 15, 341-343.	3.1	37
50	Role of FAST Kinase Domains 3 (FASTKD3) in Post-transcriptional Regulation of Mitochondrial Gene Expression. <i>Journal of Biological Chemistry</i> , 2016, 291, 25877-25887.	1.6	37
51	Lethal Poisoning of Cancer Cells by Respiratory Chain Inhibition plus Dimethyl α -Ketoglutarate. <i>Cell Reports</i> , 2019, 27, 820-834.e9.	2.9	36
52	The mitochondrial carrier pathway transports non-canonical substrates with an odd number of transmembrane segments. <i>BMC Biology</i> , 2020, 18, 2.	1.7	34
53	In vivo stabilization of OPA1 in hepatocytes potentiates mitochondrial respiration and gluconeogenesis in a prohibitin-dependent way. <i>Journal of Biological Chemistry</i> , 2019, 294, 12581-12598.	1.6	33
54	Development and validation of a chiral UHPLC-MS method for the analysis of cysteine enantiomers in biological samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 177, 112841.	1.4	33

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55	MPC1-like Is a Placental Mammal-specific Mitochondrial Pyruvate Carrier Subunit Expressed in Postmeiotic Male Germ Cells. <i>Journal of Biological Chemistry</i> , 2016, 291, 16448-16461.	1.6	30
56	TRAIL promotes membrane blebbing, detachment and migration of cells displaying a dysfunctional intrinsic pathway of apoptosis. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2013, 18, 324-336.	2.2	26
57	RNA Granules in the Mitochondria and Their Organization under Mitochondrial Stresses. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9502.	1.8	23
58	Paradoxical neuronal hyperexcitability in a mouse model of mitochondrial pyruvate import deficiency. <i>ELife</i> , 2022, 11, .	2.8	21
59	Mechanisms of Mitochondrial Outer Membrane Permeabilization. <i>Novartis Foundation Symposium</i> , 0, , 170-182.	1.2	16
60	The FASTK family proteins fine-tune mitochondrial RNA processing. <i>PLoS Genetics</i> , 2021, 17, e1009873.	1.5	16
61	1-Deoxydihydroceramide causes anoxic death by impairing chaperonin-mediated protein folding. <i>Nature Metabolism</i> , 2019, 1, 996-1008.	5.1	15
62	Non-Microtubular Localizations of Microtubule-Associated Protein 6 (MAP6). <i>PLoS ONE</i> , 2014, 9, e114905.	1.1	10
63	TAT-RasGAP317-326-mediated tumor cell death sensitization can occur independently of Bax and Bak. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2014, 19, 719-733.	2.2	10
64	Separation and determination of cysteine enantiomers in plasma after derivatization with 4-fluoro-7-nitrobenzofurazan. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 209, 114539.	1.4	8
65	Autophagy: Evolutionary and pathophysiological insights. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 1395-1396.	1.9	6
66	Mechanism-Based Markers of Drug-Induced Liver Injury to Improve the Physiological Relevance and Predictivity of <i>In Vitro</i> Models. <i>Applied in Vitro Toxicology</i> , 2015, 1, 175-186.	0.6	5
67	Sensitization of (colon) cancer cells to death receptor related therapies. <i>Cancer Biology and Therapy</i> , 2012, 13, 458-466.	1.5	4
68	Channels and transporters in cell metabolism. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 2359-2361.	1.9	3
69	Visualization of Mitochondrial RNA Granules in Cultured Cells Using 5-Bromouridine Labeling. <i>Methods in Molecular Biology</i> , 2021, 2192, 69-73.	0.4	3
70	Feasibility of neurochemically profiling mouse embryonic brain and its development in utero using 1 H MRS at 14.1ÅT. <i>NMR in Biomedicine</i> , 2019, 32, e4163.	1.6	1
71	Solange Desagher and Jean-Claude Martinou: Executioners of Cell Death. <i>Trends in Cell Biology</i> , 2016, 26, 560-562.	3.6	0