

Chris Meisinger

List of Publications by Year in descending order

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126
papers

14,686
citations

14655

66
h-index

19749

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g-index

133
all docs

133
docs citations

133
times ranked

11368
citing authors

#	ARTICLE	IF	CITATIONS
1	The proteome of <i>Saccharomyces cerevisiae</i> mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13207-13212.	7.1	839
2	Mitochondrial protein import: from proteomics to functional mechanisms. <i>Nature Reviews Molecular Cell Biology</i> , 2010, 11, 655-667.	37.0	598
3	Apoptosis in yeast: triggers, pathways, subroutines. <i>Cell Death and Differentiation</i> , 2010, 17, 763-773.	11.2	443
4	Global Analysis of the Mitochondrial N-Proteome Identifies a Processing Peptidase Critical for Protein Stability. <i>Cell</i> , 2009, 139, 428-439.	28.9	434
5	Essential role of Mia40 in import and assembly of mitochondrial intermembrane space proteins. <i>EMBO Journal</i> , 2004, 23, 3735-3746.	7.8	396
6	Dual Role of Mitofilin in Mitochondrial Membrane Organization and Protein Biogenesis. <i>Developmental Cell</i> , 2011, 21, 694-707.	7.0	361
7	Machinery for protein sorting and assembly in the mitochondrial outer membrane. <i>Nature</i> , 2003, 424, 565-571.	27.8	344
8	Toward the Complete Yeast Mitochondrial Proteome: A Multidimensional Separation Techniques for Mitochondrial Proteomics. <i>Journal of Proteome Research</i> , 2006, 5, 1543-1554.	3.7	341
9	The Protein Import Machinery of Mitochondria is a Regulatory Hub in Metabolism, Stress, and Disease. <i>Cell Metabolism</i> , 2014, 19, 357-372.	16.2	316
10	Mitochondrial Presequence Translocase: Switching between TOM Tethering and Motor Recruitment Involves Tim21 and Tim17. <i>Cell</i> , 2005, 120, 817-829.	28.9	315
11	An Essential Role of Sam50 in the Protein Sorting and Assembly Machinery of the Mitochondrial Outer Membrane. <i>Journal of Biological Chemistry</i> , 2003, 278, 48520-48523.	3.4	286
12	Multiple pathways for sorting mitochondrial precursor proteins. <i>EMBO Reports</i> , 2008, 9, 42-49.	4.5	282
13	Dissecting Membrane Insertion of Mitochondrial β -Barrel Proteins. <i>Cell</i> , 2008, 132, 1011-1024.	28.9	276
14	ZEB1 turns into a transcriptional activator by interacting with YAP1 in aggressive cancer types. <i>Nature Communications</i> , 2016, 7, 10498.	12.8	273
15	Tom22 is a multifunctional organizer of the mitochondrial preprotein translocase. <i>Nature</i> , 1999, 401, 485-489.	27.8	269
16	The Mitochondrial Morphology Protein Mdm10 Functions in Assembly of the Preprotein Translocase of the Outer Membrane. <i>Developmental Cell</i> , 2004, 7, 61-71.	7.0	249
17	The Mitochondrial Presequence Translocase. <i>Cell</i> , 2002, 111, 507-518.	28.9	241
18	Uniform nomenclature for the mitochondrial contact site and cristae organizing system. <i>Journal of Cell Biology</i> , 2014, 204, 1083-1086.	5.2	219

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19	Regulation of Mitochondrial Protein Import by Cytosolic Kinases. <i>Cell</i> , 2011, 144, 227-239.	28.9	218
20	Isolation of Yeast Mitochondria. , 2006, 313, 033-040.		205
21	Essential role of Isd11 in mitochondrial iron-sulfur cluster synthesis on Isu scaffold proteins. <i>EMBO Journal</i> , 2006, 25, 184-195.	7.8	204
22	Mitochondrial Cardiolipin Involved in Outer-Membrane Protein Biogenesis: Implications for Barth Syndrome. <i>Current Biology</i> , 2009, 19, 2133-2139.	3.9	204
23	Assembling the mitochondrial outer membrane. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 1044-1048.	8.2	196
24	Rcf1 Mediates Cytochrome Oxidase Assembly and Respirasome Formation, Revealing Heterogeneity of the Enzyme Complex. <i>Cell Metabolism</i> , 2012, 15, 336-347.	16.2	195
25	Proteomic Analysis of the Yeast Mitochondrial Outer Membrane Reveals Accumulation of a Subclass of Preproteins. <i>Molecular Biology of the Cell</i> , 2006, 17, 1436-1450.	2.1	192
26	A J-protein is an essential subunit of the presequence translocase-associated protein import motor of mitochondria. <i>Journal of Cell Biology</i> , 2003, 163, 707-713.	5.2	191
27	Pam16 has an essential role in the mitochondrial protein import motor. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 226-233.	8.2	189
28	Taz1, an Outer Mitochondrial Membrane Protein, Affects Stability and Assembly of Inner Membrane Protein Complexes: Implications for Barth Syndrome. <i>Molecular Biology of the Cell</i> , 2005, 16, 5202-5214.	2.1	185
29	Multistep assembly of the protein import channel of the mitochondrial outer membrane. <i>Nature Structural Biology</i> , 2001, 8, 361-370.	9.7	184
30	Amyloid- β Peptide Induces Mitochondrial Dysfunction by Inhibition of Preprotein Maturation. <i>Cell Metabolism</i> , 2014, 20, 662-669.	16.2	176
31	Biogenesis of the Protein Import Channel Tom40 of the Mitochondrial Outer Membrane. <i>Journal of Biological Chemistry</i> , 2004, 279, 18188-18194.	3.4	158
32	Guidelines and recommendations on yeast cell death nomenclature. <i>Microbial Cell</i> , 2018, 5, 4-31.	3.2	158
33	Protein Import Channel of the Outer Mitochondrial Membrane: a Highly Stable Tom40-Tom22 Core Structure Differentially Interacts with Preproteins, Small Tom Proteins, and Import Receptors. <i>Molecular and Cellular Biology</i> , 2001, 21, 2337-2348.	2.3	154
34	Biogenesis of Porin of the Outer Mitochondrial Membrane Involves an Import Pathway via Receptors and the General Import Pore of the Tom Complex. <i>Journal of Cell Biology</i> , 2001, 152, 289-300.	5.2	151
35	The morphology proteins Mdm12/Mmm1 function in the major β -barrel assembly pathway of mitochondria. <i>EMBO Journal</i> , 2007, 26, 2229-2239.	7.8	146
36	Purification of <i>Saccharomyces cerevisiae</i> Mitochondria Devoid of Microsomal and Cytosolic Contaminations. <i>Analytical Biochemistry</i> , 2000, 287, 339-342.	2.4	143

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37	Profiling Phosphoproteins of Yeast Mitochondria Reveals a Role of Phosphorylation in Assembly of the ATP Synthase. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 1896-1906.	3.8	142
38	Mitochondrial translocation contact sites: separation of dynamic and stabilizing elements in formation of a TOM-TIM-preprotein supercomplex. <i>EMBO Journal</i> , 2003, 22, 5370-5381.	7.8	141
39	Novel Mitochondrial Intermembrane Space Proteins as Substrates of the MIA Import Pathway. <i>Journal of Molecular Biology</i> , 2007, 365, 612-620.	4.2	140
40	Intermembrane Space Proteome of Yeast Mitochondria. <i>Molecular and Cellular Proteomics</i> , 2012, 11, 1840-1852.	3.8	134
41	The Mitochondrial Proteome: From Inventory to Function. <i>Cell</i> , 2008, 134, 22-24.	28.9	129
42	Cell cycle-dependent regulation of mitochondrial preprotein translocase. <i>Science</i> , 2014, 346, 1109-1113.	12.6	128
43	Processing of mitochondrial presequences. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2012, 1819, 1098-1106.	1.9	127
44	Biogenesis of the Mitochondrial TOM Complex. <i>Journal of Biological Chemistry</i> , 2008, 283, 120-127.	3.4	125
45	Protein translocase of the outer mitochondrial membrane: role of import receptors in the structural organization of the TOM complex. <i>Journal of Molecular Biology</i> , 2002, 316, 657-666.	4.2	123
46	Landscape of submitochondrial protein distribution. <i>Nature Communications</i> , 2017, 8, 290.	12.8	123
47	Sam35 of the Mitochondrial Protein Sorting and Assembly Machinery Is a Peripheral Outer Membrane Protein Essential for Cell Viability. <i>Journal of Biological Chemistry</i> , 2004, 279, 22781-22785.	3.4	120
48	A yeast BH3-only protein mediates the mitochondrial pathway of apoptosis. <i>EMBO Journal</i> , 2011, 30, 2779-2792.	7.8	120
49	The mitochondrial import protein Mim1 promotes biogenesis of multispinning outer membrane proteins. <i>Journal of Cell Biology</i> , 2011, 194, 387-395.	5.2	117
50	Mitochondrial protein turnover: role of the precursor intermediate peptidase Oct1 in protein stabilization. <i>Molecular Biology of the Cell</i> , 2011, 22, 2135-2143.	2.1	107
51	Pam17 Is Required for Architecture and Translocation Activity of the Mitochondrial Protein Import Motor. <i>Molecular and Cellular Biology</i> , 2005, 25, 7449-7458.	2.3	104
52	Alternative function for the mitochondrial SAM complex in biogenesis of α -helical TOM proteins. <i>Journal of Cell Biology</i> , 2007, 179, 881-893.	5.2	104
53	Mitochondrial Preprotein Translocase of Trypanosomatids Has a Bacterial Origin. <i>Current Biology</i> , 2011, 21, 1738-1743.	3.9	104
54	Mitochondrial Import of the ADP/ATP Carrier: the Essential TIM Complex of the Intermembrane Space Is Required for Precursor Release from the TOM Complex. <i>Molecular and Cellular Biology</i> , 2002, 22, 7780-7789.	2.3	97

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55	Distinct Forms of Mitochondrial TOM-TIM Supercomplexes Define Signal-Dependent States of Preprotein Sorting. <i>Molecular and Cellular Biology</i> , 2010, 30, 307-318.	2.3	92
56	Mitochondrial Protein Sorting. <i>Journal of Biological Chemistry</i> , 2006, 281, 22819-22826.	3.4	90
57	Preprotein Translocase of the Outer Mitochondrial Membrane: Reconstituted Tom40 Forms a Characteristic TOM Pore. <i>Journal of Molecular Biology</i> , 2005, 353, 1011-1020.	4.2	89
58	COA6 is a mitochondrial complex IV assembly factor critical for biogenesis of mtDNA-encoded COX2. <i>Human Molecular Genetics</i> , 2015, 24, 5404-5415.	2.9	89
59	Mitochondrial Outer Membrane Proteome of <i>Trypanosoma brucei</i> Reveals Novel Factors Required to Maintain Mitochondrial Morphology. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 515-528.	3.8	88
60	Glucose-Induced Regulation of Protein Import Receptor Tom22 by Cytosolic and Mitochondria-Bound Kinases. <i>Cell Metabolism</i> , 2013, 18, 578-587.	16.2	84
61	Insertion of Hydrophobic Membrane Proteins into the Inner Mitochondrial Membrane—A Guided Tour. <i>Journal of Molecular Biology</i> , 2003, 326, 639-657.	4.2	83
62	Cryo-Electron Microscopy Structure of a Yeast Mitochondrial Preprotein Translocase. <i>Journal of Molecular Biology</i> , 2008, 383, 1049-1057.	4.2	83
63	Biogenesis of Mitochondria: Dual Role of Tom7 in Modulating Assembly of the Preprotein Translocase of the Outer Membrane. <i>Journal of Molecular Biology</i> , 2011, 405, 113-124.	4.2	82
64	Novel Highly Sensitive, Specific, and Straightforward Strategy for Comprehensive N-Terminal Proteomics Reveals Unknown Substrates of the Mitochondrial Peptidase Icp55. <i>Journal of Proteome Research</i> , 2013, 12, 3823-3830.	3.7	82
65	Biogenesis of the preprotein translocase of the outer mitochondrial membrane: protein kinase A phosphorylates the precursor of Tom40 and impairs its import. <i>Molecular Biology of the Cell</i> , 2012, 23, 1618-1627.	2.1	74
66	Separating mitochondrial protein assembly and endoplasmic reticulum tethering by selective coupling of Mdm10. <i>Nature Communications</i> , 2016, 7, 13021.	12.8	74
67	Endonuclease G mediates α -synuclein cytotoxicity during Parkinson's disease. <i>EMBO Journal</i> , 2013, 32, 3041-3054.	7.8	71
68	Mitochondrial protein import receptors in Kinetoplastids reveal convergent evolution over large phylogenetic distances. <i>Nature Communications</i> , 2015, 6, 6646.	12.8	68
69	Two-dimensional benzyltrimethyl-n-hexadecylammonium chloride/SDS-PAGE for membrane proteomics. <i>Proteomics</i> , 2005, 5, 3581-3588.	2.2	66
70	BH3-only proteins are tail-anchored in the outer mitochondrial membrane and can initiate the activation of Bax. <i>Cell Death and Differentiation</i> , 2012, 19, 1328-1336.	11.2	65
71	Inactivation of the Mitochondrial Heat Shock Protein Zim17 Leads to Aggregation of Matrix Hsp70s Followed by Pleiotropic Effects on Morphology and Protein Biogenesis. <i>Journal of Molecular Biology</i> , 2005, 351, 206-218.	4.2	63
72	Peeping at TOMs—Diverse Entry Gates to Mitochondria Provide Insights into the Evolution of Eukaryotes. <i>Molecular Biology and Evolution</i> , 2016, 33, 337-351.	8.9	63

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73	PLK1 (polo like kinase 1) inhibits MTOR complex 1 and promotes autophagy. <i>Autophagy</i> , 2017, 13, 486-505.	9.1	63
74	Processing and Topology of the Yeast Mitochondrial Phosphatidylserine Decarboxylase 1. <i>Journal of Biological Chemistry</i> , 2012, 287, 36744-36755.	3.4	58
75	A respiratory chain controlled signal transduction cascade in the mitochondrial intermembrane space mediates hydrogen peroxide signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5679-88.	7.1	58
76	How mitochondria import hydrophilic and hydrophobic proteins. <i>Trends in Cell Biology</i> , 2002, 12, 299-303.	7.9	55
77	Sorting and assembly of mitochondrial outer membrane proteins. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 557-563.	1.0	55
78	An Early mtUPR: Redistribution of the Nuclear Transcription Factor Rox1 to Mitochondria Protects against Intramitochondrial Proteotoxic Aggregates. <i>Molecular Cell</i> , 2020, 77, 180-188.e9.	9.7	53
79	In mammalian skeletal muscle, phosphorylation of TOMM22 by protein kinase CSNK2/CK2 controls mitophagy. <i>Autophagy</i> , 2018, 14, 311-335.	9.1	51
80	Biogenesis of mitochondrial \hat{I}^2 -barrel proteins: the POTRA domain is involved in precursor release from the SAM complex. <i>Molecular Biology of the Cell</i> , 2011, 22, 2823-2833.	2.1	47
81	Trypanosomal TAC40 constitutes a novel subclass of mitochondrial \hat{I}^2 -barrel proteins specialized in mitochondrial genome inheritance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7624-7629.	7.1	47
82	Molecular Convergence of Bacterial and Eukaryotic Surface Order. <i>Journal of Biological Chemistry</i> , 2011, 286, 40631-40637.	3.4	46
83	Mitochondrial inner membrane protease promotes assembly of presequence translocase by removing a carboxy-terminal targeting sequence. <i>Nature Communications</i> , 2013, 4, 2853.	12.8	45
84	Pptc7 is an essential phosphatase for promoting mammalian mitochondrial metabolism and biogenesis. <i>Nature Communications</i> , 2019, 10, 3197.	12.8	45
85	The novel component Kgd4 recruits the E3 subunit to the mitochondrial \hat{I}^{\pm} -ketoglutarate dehydrogenase. <i>Molecular Biology of the Cell</i> , 2014, 25, 3342-3349.	2.1	43
86	Metabolic control via the mitochondrial protein import machinery. <i>Current Opinion in Cell Biology</i> , 2015, 33, 42-48.	5.4	43
87	MIPEP recessive variants cause a syndrome of left ventricular non-compaction, hypotonia, and infantile death. <i>Genome Medicine</i> , 2016, 8, 106.	8.2	43
88	Identification of new channels by systematic analysis of the mitochondrial outer membrane. <i>Journal of Cell Biology</i> , 2017, 216, 3485-3495.	5.2	40
89	Targeting Capacity and Conservation of PreP Homologues Localization in Mitochondria of Different Species. <i>Journal of Molecular Biology</i> , 2011, 410, 400-410.	4.2	39
90	Signaling at the gate: Phosphorylation of the mitochondrial protein import machinery. <i>Cell Cycle</i> , 2011, 10, 2083-2090.	2.6	37

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91	The fusogenic lipid phosphatidic acid promotes the biogenesis of mitochondrial outer membrane protein Ugo1. <i>Journal of Cell Biology</i> , 2015, 210, 951-960.	5.2	36
92	Bacterial Origin of a Mitochondrial Outer Membrane Protein Translocase. <i>Journal of Biological Chemistry</i> , 2012, 287, 31437-31445.	3.4	35
93	Biogenesis of Yeast Mitochondrial Cytochrome c: A Unique Relationship to the TOM Machinery. <i>Journal of Molecular Biology</i> , 2003, 327, 465-474.	4.2	34
94	Preprotein Transport Machineries of Yeast Mitochondrial Outer Membrane Are not Required for Bax-induced Release of Intermembrane Space Proteins. <i>Journal of Molecular Biology</i> , 2007, 368, 44-54.	4.2	34
95	Improving Identification of In-organello Protein-Protein Interactions Using an Affinity-enrichable, Isotopically Coded, and Mass Spectrometry-cleavable Chemical Crosslinker. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 624-639.	3.8	34
96	Over-expression of the 18 kD and 21/23 kD fibroblast growth factor-2 isoforms in PC12 cells and Schwann cells results in altered cell morphology and growth. <i>Molecular Brain Research</i> , 1998, 57, 97-105.	2.3	29
97	Mitochondrial morphology and protein import – A tight connection?. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2006, 1763, 414-421.	4.1	28
98	Connecting Organelles. <i>Science</i> , 2009, 325, 403-404.	12.6	26
99	An essential novel component of the noncanonical mitochondrial outer membrane protein import system of trypanosomatids. <i>Molecular Biology of the Cell</i> , 2012, 23, 3420-3428.	2.1	26
100	Biogenesis of the mitochondrial DNA inheritance machinery in the mitochondrial outer membrane of <i>Trypanosoma brucei</i> . <i>PLoS Pathogens</i> , 2017, 13, e1006808.	4.7	23
101	Protein conducting nanopores. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 454102.	1.8	21
102	The novel mitochondrial matrix protease Ste23 is required for efficient presequence degradation and processing. <i>Molecular Biology of the Cell</i> , 2017, 28, 997-1002.	2.1	19
103	Sensing Mitochondrial Homeostasis: the Protein Import Machinery Takes Control. <i>Developmental Cell</i> , 2012, 23, 234-236.	7.0	17
104	The HSP40 chaperone Ydj1 drives amyloid beta 42 toxicity. <i>EMBO Molecular Medicine</i> , 2022, 14, e13952.	6.9	16
105	Global kinome profiling reveals DYRK1A as critical activator of the human mitochondrial import machinery. <i>Nature Communications</i> , 2021, 12, 4284.	12.8	15
106	From inventory to functional mechanisms. <i>FEBS Journal</i> , 2013, 280, 4933-4942.	4.7	14
107	Mitochondrial protein import under kinase surveillance. <i>Microbial Cell</i> , 2014, 1, 51-57.	3.2	14
108	CELL BIOLOGY: Double Membrane Fusion. <i>Science</i> , 2004, 305, 1723-1724.	12.6	12

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109	Assembling the Outer Membrane. <i>Science</i> , 2010, 328, 831-832.	12.6	8
110	Response to Zarsky et al.. <i>Current Biology</i> , 2012, 22, R481-R482.	3.9	7
111	Recent advances in mitochondrial biology - integrated aspects. <i>Cell and Tissue Research</i> , 2017, 367, 1-3.	2.9	6
112	Advanced tools for the analysis of protein phosphorylation in yeast mitochondria. <i>Analytical Biochemistry</i> , 2018, 554, 23-27.	2.4	6
113	A common evolutionary origin reveals fundamental principles of protein insertases. <i>PLoS Biology</i> , 2022, 20, e3001558.	5.6	6
114	Mitochondrial Intermediate Cleaving Peptidase Icp55. , 2013, , 1533-1536.		5
115	Tuning the mitochondrial protein import machinery by reversible phosphorylation: from metabolic switches to cell cycle regulation. <i>Current Opinion in Physiology</i> , 2018, 3, 49-56.	1.8	4
116	Native Techniques for Analysis of Mitochondrial Protein Import. <i>Methods in Molecular Biology</i> , 2010, 619, 425-436.	0.9	4
117	Monitoring checkpoints of metabolism and protein biogenesis in mitochondria by Phos-tag technology. <i>Journal of Proteomics</i> , 2022, 252, 104430.	2.4	4
118	Response: The Mitochondrial \hat{I}^2 -Signal and Protein Sorting. <i>Cell</i> , 2008, 135, 1159-1160.	28.9	3
119	NMR-Based Detection of Hydrogen/Deuterium Exchange in Liposome-Embedded Membrane Proteins. <i>PLoS ONE</i> , 2014, 9, e112374.	2.5	3
120	Mitochondria as emergency landing for abandoned peroxins. <i>EMBO Reports</i> , 2021, 22, e53790.	4.5	2
121	Alternative function for the mitochondrial SAM complex in biogenesis of \hat{I}^{\pm} -helical TOM proteins. <i>Journal of Cell Biology</i> , 2007, 179, 1613-1613.	5.2	1
122	Sensing Mitochondrial Homeostasis: the Protein Import Machinery Takes Control. <i>Developmental Cell</i> , 2012, 23, 674.	7.0	1
123	New Channels in the Outer Mitochondrial Membrane. <i>Biophysical Journal</i> , 2010, 98, 533a.	0.5	0
124	Biogenesis of mitochondria connects to the cell cycle. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, S68-S69.	1.0	0
125	Signalling pathways regulating mitochondrial protein import. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, S83.	1.0	0
126	Cryo-EM structural model of the multichannel outer mitochondrial translocation machinery: implications for multiple functionality. , 0, 2007, .		0