

Chris Meisinger

List of Publications by Year in descending order

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126
papers

14,686
citations

14644

66
h-index

19726

117
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133
all docs

133
docs citations

133
times ranked

11368
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring checkpoints of metabolism and protein biogenesis in mitochondria by Phos-tag technology. <i>Journal of Proteomics</i> , 2022, 252, 104430.	1.2	4
2	A common evolutionary origin reveals fundamental principles of protein insertases. <i>PLoS Biology</i> , 2022, 20, e3001558.	2.6	6
3	The HSP40 chaperone Ydj1 drives amyloid beta 42 toxicity. <i>EMBO Molecular Medicine</i> , 2022, 14, e13952.	3.3	16
4	Global kinome profiling reveals DYRK1A as critical activator of the human mitochondrial import machinery. <i>Nature Communications</i> , 2021, 12, 4284.	5.8	15
5	Mitochondria as emergency landing for abandoned peroxins. <i>EMBO Reports</i> , 2021, 22, e53790.	2.0	2
6	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.	4.5	53
7	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.	2.5	34
8	Pptc7 is an essential phosphatase for promoting mammalian mitochondrial metabolism and biogenesis. <i>Nature Communications</i> , 2019, 10, 3197.	5.8	45
9	In mammalian skeletal muscle, phosphorylation of TOMM22 by protein kinase CSNK2/CK2 controls mitophagy. <i>Autophagy</i> , 2018, 14, 311-335.	4.3	51
10	Guidelines and recommendations on yeast cell death nomenclature. <i>Microbial Cell</i> , 2018, 5, 4-31.	1.4	158
11	Advanced tools for the analysis of protein phosphorylation in yeast mitochondria. <i>Analytical Biochemistry</i> , 2018, 554, 23-27.	1.1	6
12	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.	0.9	4
13	PLK1 (polo like kinase 1) inhibits MTOR complex 1 and promotes autophagy. <i>Autophagy</i> , 2017, 13, 486-505.	4.3	63
14	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.	0.9	19
15	Recent advances in mitochondrial biology - integrated aspects. <i>Cell and Tissue Research</i> , 2017, 367, 1-3.	1.5	6
16	Identification of new channels by systematic analysis of the mitochondrial outer membrane. <i>Journal of Cell Biology</i> , 2017, 216, 3485-3495.	2.3	40
17	Landscape of submitochondrial protein distribution. <i>Nature Communications</i> , 2017, 8, 290.	5.8	123
18	Biogenesis of the mitochondrial DNA inheritance machinery in the mitochondrial outer membrane of <i>Trypanosoma brucei</i> . <i>PLoS Pathogens</i> , 2017, 13, e1006808.	2.1	23

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19	MIPEP recessive variants cause a syndrome of left ventricular non-compaction, hypotonia, and infantile death. <i>Genome Medicine</i> , 2016, 8, 106.	3.6	43
20	Separating mitochondrial protein assembly and endoplasmic reticulum tethering by selective coupling of Mdm10. <i>Nature Communications</i> , 2016, 7, 13021.	5.8	74
21	ZEB1 turns into a transcriptional activator by interacting with YAP1 in aggressive cancer types. <i>Nature Communications</i> , 2016, 7, 10498.	5.8	273
22	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.	3.5	63
23	COA6 is a mitochondrial complex IV assembly factor critical for biogenesis of mtDNA-encoded COX2. <i>Human Molecular Genetics</i> , 2015, 24, 5404-5415.	1.4	89
24	Mitochondrial protein import receptors in Kinetoplastids reveal convergent evolution over large phylogenetic distances. <i>Nature Communications</i> , 2015, 6, 6646.	5.8	68
25	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.	3.3	58
26	The fusogenic lipid phosphatidic acid promotes the biogenesis of mitochondrial outer membrane protein Ugo1. <i>Journal of Cell Biology</i> , 2015, 210, 951-960.	2.3	36
27	Metabolic control via the mitochondrial protein import machinery. <i>Current Opinion in Cell Biology</i> , 2015, 33, 42-48.	2.6	43
28	The Protein Import Machinery of Mitochondria—A Regulatory Hub in Metabolism, Stress, and Disease. <i>Cell Metabolism</i> , 2014, 19, 357-372.	7.2	316
29	Cell cycle—dependent regulation of mitochondrial preprotein translocase. <i>Science</i> , 2014, 346, 1109-1113.	6.0	128
30	Amyloid- β Peptide Induces Mitochondrial Dysfunction by Inhibition of Preprotein Maturation. <i>Cell Metabolism</i> , 2014, 20, 662-669.	7.2	176
31	The novel component Kgd4 recruits the E3 subunit to the mitochondrial α -ketoglutarate dehydrogenase. <i>Molecular Biology of the Cell</i> , 2014, 25, 3342-3349.	0.9	43
32	Uniform nomenclature for the mitochondrial contact site and cristae organizing system. <i>Journal of Cell Biology</i> , 2014, 204, 1083-1086.	2.3	219
33	Trypanosomal TAC40 constitutes a novel subclass of mitochondrial β -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.	3.3	47
34	NMR-Based Detection of Hydrogen/Deuterium Exchange in Liposome-Embedded Membrane Proteins. <i>PLoS ONE</i> , 2014, 9, e112374.	1.1	3
35	Mitochondrial protein import under kinase surveillance. <i>Microbial Cell</i> , 2014, 1, 51-57.	1.4	14
36	Glucose-Induced Regulation of Protein Import Receptor Tom22 by Cytosolic and Mitochondria-Bound Kinases. <i>Cell Metabolism</i> , 2013, 18, 578-587.	7.2	84

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37	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.	1.8	82
38	Mitochondrial inner membrane protease promotes assembly of presequence translocase by removing a carboxy-terminal targeting sequence. <i>Nature Communications</i> , 2013, 4, 2853.	5.8	45
39	Endonuclease G mediates α -synuclein cytotoxicity during Parkinson's disease. <i>EMBO Journal</i> , 2013, 32, 3041-3054.	3.5	71
40	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.	2.5	88
41	From inventory to functional mechanisms. <i>FEBS Journal</i> , 2013, 280, 4933-4942.	2.2	14
42	Mitochondrial Intermediate Cleaving Peptidase Icp55. , 2013, , 1533-1536.		5
43	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.	0.9	26
44	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.	0.9	74
45	Processing and Topology of the Yeast Mitochondrial Phosphatidylserine Decarboxylase 1. <i>Journal of Biological Chemistry</i> , 2012, 287, 36744-36755.	1.6	58
46	Intermembrane Space Proteome of Yeast Mitochondria. <i>Molecular and Cellular Proteomics</i> , 2012, 11, 1840-1852.	2.5	134
47	Biogenesis of mitochondria connects to the cell cycle. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, S68-S69.	0.5	0
48	Signalling pathways regulating mitochondrial protein import. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, S83.	0.5	0
49	Bacterial Origin of a Mitochondrial Outer Membrane Protein Translocase. <i>Journal of Biological Chemistry</i> , 2012, 287, 31437-31445.	1.6	35
50	Rcf1 Mediates Cytochrome Oxidase Assembly and Respirasome Formation, Revealing Heterogeneity of the Enzyme Complex. <i>Cell Metabolism</i> , 2012, 15, 336-347.	7.2	195
51	Processing of mitochondrial presequences. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2012, 1819, 1098-1106.	0.9	127
52	Sensing Mitochondrial Homeostasis: the Protein Import Machinery Takes Control. <i>Developmental Cell</i> , 2012, 23, 234-236.	3.1	17
53	Sensing Mitochondrial Homeostasis: the Protein Import Machinery Takes Control. <i>Developmental Cell</i> , 2012, 23, 674.	3.1	1
54	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.	5.0	65

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55	Response to Zarsky et al.. Current Biology, 2012, 22, R481-R482.	1.8	7
56	A yeast BH3-only protein mediates the mitochondrial pathway of apoptosis. EMBO Journal, 2011, 30, 2779-2792.	3.5	120
57	Molecular Convergence of Bacterial and Eukaryotic Surface Order. Journal of Biological Chemistry, 2011, 286, 40631-40637.	1.6	46
58	Regulation of Mitochondrial Protein Import by Cytosolic Kinases. Cell, 2011, 144, 227-239.	13.5	218
59	Dual Role of Mitofilin in Mitochondrial Membrane Organization and Protein Biogenesis. Developmental Cell, 2011, 21, 694-707.	3.1	361
60	Biogenesis of Mitochondria: Dual Role of Tom7 in Modulating Assembly of the Preprotein Translocase of the Outer Membrane. Journal of Molecular Biology, 2011, 405, 113-124.	2.0	82
61	Targeting Capacity and Conservation of PreP Homologues Localization in Mitochondria of Different Species. Journal of Molecular Biology, 2011, 410, 400-410.	2.0	39
62	Mitochondrial Preprotein Translocase of Trypanosomatids Has a Bacterial Origin. Current Biology, 2011, 21, 1738-1743.	1.8	104
63	Mitochondrial protein turnover: role of the precursor intermediate peptidase Oct1 in protein stabilization. Molecular Biology of the Cell, 2011, 22, 2135-2143.	0.9	107
64	The mitochondrial import protein Mim1 promotes biogenesis of multispinning outer membrane proteins. Journal of Cell Biology, 2011, 194, 387-395.	2.3	117
65	Biogenesis of mitochondrial β -barrel proteins: the POTRA domain is involved in precursor release from the SAM complex. Molecular Biology of the Cell, 2011, 22, 2823-2833.	0.9	47
66	Signaling at the gate: Phosphorylation of the mitochondrial protein import machinery. Cell Cycle, 2011, 10, 2083-2090.	1.3	37
67	Apoptosis in yeast: triggers, pathways, subroutines. Cell Death and Differentiation, 2010, 17, 763-773.	5.0	443
68	Mitochondrial protein import: from proteomics to functional mechanisms. Nature Reviews Molecular Cell Biology, 2010, 11, 655-667.	16.1	598
69	Distinct Forms of Mitochondrial TOM-TIM Supercomplexes Define Signal-Dependent States of Preprotein Sorting. Molecular and Cellular Biology, 2010, 30, 307-318.	1.1	92
70	Protein conducting nanopores. Journal of Physics Condensed Matter, 2010, 22, 454102.	0.7	21
71	New Channels in the Outer Mitochondrial Membrane. Biophysical Journal, 2010, 98, 533a.	0.2	0
72	Assembling the Outer Membrane. Science, 2010, 328, 831-832.	6.0	8

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73	Native Techniques for Analysis of Mitochondrial Protein Import. <i>Methods in Molecular Biology</i> , 2010, 619, 425-436.	0.4	4
74	Connecting Organelles. <i>Science</i> , 2009, 325, 403-404.	6.0	26
75	Mitochondrial Cardiolipin Involved in Outer-Membrane Protein Biogenesis: Implications for Barth Syndrome. <i>Current Biology</i> , 2009, 19, 2133-2139.	1.8	204
76	Global Analysis of the Mitochondrial N-Proteome Identifies a Processing Peptidase Critical for Protein Stability. <i>Cell</i> , 2009, 139, 428-439.	13.5	434
77	Multiple pathways for sorting mitochondrial precursor proteins. <i>EMBO Reports</i> , 2008, 9, 42-49.	2.0	282
78	Sorting and assembly of mitochondrial outer membrane proteins. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 557-563.	0.5	55
79	Cryo-Electron Microscopy Structure of a Yeast Mitochondrial Preprotein Translocase. <i>Journal of Molecular Biology</i> , 2008, 383, 1049-1057.	2.0	83
80	Dissecting Membrane Insertion of Mitochondrial β -Barrel Proteins. <i>Cell</i> , 2008, 132, 1011-1024.	13.5	276
81	The Mitochondrial Proteome: From Inventory to Function. <i>Cell</i> , 2008, 134, 22-24.	13.5	129
82	Response: The Mitochondrial β -Signal and Protein Sorting. <i>Cell</i> , 2008, 135, 1159-1160.	13.5	3
83	Biogenesis of the Mitochondrial TOM Complex. <i>Journal of Biological Chemistry</i> , 2008, 283, 120-127.	1.6	125
84	Alternative function for the mitochondrial SAM complex in biogenesis of β -helical TOM proteins. <i>Journal of Cell Biology</i> , 2007, 179, 1613-1613.	2.3	1
85	Alternative function for the mitochondrial SAM complex in biogenesis of β -helical TOM proteins. <i>Journal of Cell Biology</i> , 2007, 179, 881-893.	2.3	104
86	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.	2.5	142
87	Novel Mitochondrial Intermembrane Space Proteins as Substrates of the MIA Import Pathway. <i>Journal of Molecular Biology</i> , 2007, 365, 612-620.	2.0	140
88	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.	2.0	34
89	The morphology proteins Mdm12/Mmm1 function in the major β -barrel assembly pathway of mitochondria. <i>EMBO Journal</i> , 2007, 26, 2229-2239.	3.5	146
90	Isolation of Yeast Mitochondria. , 2006, 313, 033-040.		205

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91	Toward the Complete Yeast Mitochondrial Proteome: A Multidimensional Separation Techniques for Mitochondrial Proteomics. <i>Journal of Proteome Research</i> , 2006, 5, 1543-1554.	1.8	341
92	Essential role of Isd11 in mitochondrial iron-sulfur cluster synthesis on Isu scaffold proteins. <i>EMBO Journal</i> , 2006, 25, 184-195.	3.5	204
93	Mitochondrial morphology and protein import: A tight connection?. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2006, 1763, 414-421.	1.9	28
94	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.	0.9	192
95	Mitochondrial Protein Sorting. <i>Journal of Biological Chemistry</i> , 2006, 281, 22819-22826.	1.6	90
96	Two-dimensional benzyldimethyl-n-hexadecylammonium chloride/SDS-PAGE for membrane proteomics. <i>Proteomics</i> , 2005, 5, 3581-3588.	1.3	66
97	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.	0.9	185
98	Pam17 Is Required for Architecture and Translocation Activity of the Mitochondrial Protein Import Motor. <i>Molecular and Cellular Biology</i> , 2005, 25, 7449-7458.	1.1	104
99	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.	2.0	63
100	Preprotein Translocase of the Outer Mitochondrial Membrane: Reconstituted Tom40 Forms a Characteristic TOM Pore. <i>Journal of Molecular Biology</i> , 2005, 353, 1011-1020.	2.0	89
101	Mitochondrial Presequence Translocase: Switching between TOM Tethering and Motor Recruitment Involves Tim21 and Tim17. <i>Cell</i> , 2005, 120, 817-829.	13.5	315
102	Biogenesis of the Protein Import Channel Tom40 of the Mitochondrial Outer Membrane. <i>Journal of Biological Chemistry</i> , 2004, 279, 18188-18194.	1.6	158
103	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.	1.6	120
104	Essential role of Mia40 in import and assembly of mitochondrial intermembrane space proteins. <i>EMBO Journal</i> , 2004, 23, 3735-3746.	3.5	396
105	Pam16 has an essential role in the mitochondrial protein import motor. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 226-233.	3.6	189
106	Assembling the mitochondrial outer membrane. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 1044-1048.	3.6	196
107	CELL BIOLOGY: Double Membrane Fusion. <i>Science</i> , 2004, 305, 1723-1724.	6.0	12
108	The Mitochondrial Morphology Protein Mdm10 Functions in Assembly of the Preprotein Translocase of the Outer Membrane. <i>Developmental Cell</i> , 2004, 7, 61-71.	3.1	249

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109	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.	3.5	141
110	Machinery for protein sorting and assembly in the mitochondrial outer membrane. <i>Nature</i> , 2003, 424, 565-571.	13.7	344
111	Insertion of Hydrophobic Membrane Proteins into the Inner Mitochondrial Membrane—A Guided Tour. <i>Journal of Molecular Biology</i> , 2003, 326, 639-657.	2.0	83
112	Biogenesis of Yeast Mitochondrial Cytochrome c: A Unique Relationship to the TOM Machinery. <i>Journal of Molecular Biology</i> , 2003, 327, 465-474.	2.0	34
113	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.	3.3	839
114	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.	1.6	286
115	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.	2.3	191
116	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.	1.1	97
117	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.	2.0	123
118	The Mitochondrial Presequence Translocase. <i>Cell</i> , 2002, 111, 507-518.	13.5	241
119	How mitochondria import hydrophilic and hydrophobic proteins. <i>Trends in Cell Biology</i> , 2002, 12, 299-303.	3.6	55
120	Multistep assembly of the protein import channel of the mitochondrial outer membrane. <i>Nature Structural Biology</i> , 2001, 8, 361-370.	9.7	184
121	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.	1.1	154
122	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.	2.3	151
123	Purification of <i>Saccharomyces cerevisiae</i> Mitochondria Devoid of Microsomal and Cytosolic Contaminations. <i>Analytical Biochemistry</i> , 2000, 287, 339-342.	1.1	143
124	Tom22 is a multifunctional organizer of the mitochondrial preprotein translocase. <i>Nature</i> , 1999, 401, 485-489.	13.7	269
125	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.	2.5	29
126	Cryo-EM structural model of the multichannel outer mitochondrial translocation machinery: implications for multiple functionality. , 0, 2007, .		0