

Doron Rapaport

List of Publications by Year in descending order

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101
papers

5,892
citations

57758

44
h-index

79698

73
g-index

110
all docs

110
docs citations

110
times ranked

4562
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolutionary conservation of biogenesis of β -barrel membrane proteins. <i>Nature</i> , 2003, 426, 862-866.	27.8	388
2	Fzo1p Is a Mitochondrial Outer Membrane Protein Essential for the Biogenesis of Functional Mitochondria in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 1998, 273, 20150-20155.	3.4	321
3	Finding the right organelle. <i>EMBO Reports</i> , 2003, 4, 948-952.	4.5	182
4	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
5	Tom20 Mediates Localization of mRNAs to Mitochondria in a Translation-Dependent Manner. <i>Molecular and Cellular Biology</i> , 2010, 30, 284-294.	2.3	150
6	Biogenesis of β -barrel membrane proteins in bacteria and eukaryotes: evolutionary conservation and divergence. <i>Cellular and Molecular Life Sciences</i> , 2009, 66, 2789-2804.	5.4	149
7	Integration of tail-anchored proteins into the mitochondrial outer membrane does not require any known import components. <i>Journal of Cell Science</i> , 2008, 121, 1990-1998.	2.0	147
8	Biogenesis of Tom40, Core Component of the Tom Complex of Mitochondria. <i>Journal of Cell Biology</i> , 1999, 146, 321-332.	5.2	139
9	Connection of the Mitochondrial Outer and Inner Membranes by Fzo1 Is Critical for Organellar Fusion. <i>Journal of Cell Biology</i> , 2001, 152, 683-692.	5.2	136
10	Genome-wide SWAp-Tag yeast libraries for proteome exploration. <i>Nature Methods</i> , 2018, 15, 617-622.	19.0	134
11	Vps13-Mcp1 interact at vacuole-mitochondria interfaces and bypass ER-mitochondria contact sites. <i>Journal of Cell Biology</i> , 2017, 216, 3219-3229.	5.2	132
12	Biogenesis of β -barrel membrane proteins of mitochondria. <i>Trends in Biochemical Sciences</i> , 2005, 30, 575-582.	7.5	129
13	Mitochondrial Protein Import. <i>Journal of Biological Chemistry</i> , 1997, 272, 18725-18731.	3.4	119
14	Tob38, a novel essential component in the biogenesis of β -barrel proteins of mitochondria. <i>EMBO Reports</i> , 2004, 5, 704-709.	4.5	119
15	Ergosterol content specifies targeting of tail-anchored proteins to mitochondrial outer membranes. <i>Molecular Biology of the Cell</i> , 2012, 23, 3927-3935.	2.1	119
16	How does the TOM complex mediate insertion of precursor proteins into the mitochondrial outer membrane?. <i>Journal of Cell Biology</i> , 2005, 171, 419-423.	5.2	105
17	Signals in bacterial β -barrel proteins are functional in eukaryotic cells for targeting to and assembly in mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 2531-2536.	7.1	105
18	Biogenesis of mitochondrial outer membrane proteins. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 42-51.	4.1	100

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19	Absence of BiP Co-chaperone DNAJC3 Causes Diabetes Mellitus and Multisystemic Neurodegeneration. <i>American Journal of Human Genetics</i> , 2014, 95, 689-697.	6.2	100
20	Multiple pathways in the integration of proteins into the mitochondrial outer membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 971-980.	2.6	97
21	Mim1 Functions in an Oligomeric Form to Facilitate the Integration of Tom20 into the Mitochondrial Outer Membrane. <i>Journal of Molecular Biology</i> , 2008, 376, 671-680.	4.2	91
22	Mcp1 and Mcp2, two novel proteins involved in mitochondrial lipid homeostasis. <i>Journal of Cell Science</i> , 2013, 126, 3563-74.	2.0	90
23	Structural Basis of Membrane Protein Chaperoning through the Mitochondrial Intermembrane Space. <i>Cell</i> , 2018, 175, 1365-1379.e25.	28.9	87
24	Multispan mitochondrial outer membrane protein Ugo1 follows a unique Mim1-dependent import pathway. <i>Journal of Cell Biology</i> , 2011, 194, 397-405.	5.2	81
25	Characterization of the targeting signal in mitochondrial \hat{I}^2 -barrel proteins. <i>Nature Communications</i> , 2016, 7, 12036.	12.8	80
26	Cytosolic Events in the Biogenesis of Mitochondrial Proteins. <i>Trends in Biochemical Sciences</i> , 2020, 45, 650-667.	7.5	79
27	The N-terminal domain of Tob55 has a receptor-like function in the biogenesis of mitochondrial \hat{I}^2 -barrel proteins. <i>Journal of Cell Biology</i> , 2007, 176, 77-88.	5.2	75
28	Signal-anchored Proteins Follow a Unique Insertion Pathway into the Outer Membrane of Mitochondria. <i>Journal of Biological Chemistry</i> , 2005, 280, 48-53.	3.4	74
29	Proteome analysis of mitochondrial outer membrane from <i>Neurospora crassa</i> . <i>Proteomics</i> , 2006, 6, 72-80.	2.2	74
30	Dynamics of the TOM Complex of Mitochondria during Binding and Translocation of Preproteins. <i>Molecular and Cellular Biology</i> , 1998, 18, 5256-5262.	2.3	73
31	The Mitochondrial TOM Complex Is Required for tBid/Bax-induced Cytochrome c Release. <i>Journal of Biological Chemistry</i> , 2007, 282, 27633-27639.	3.4	73
32	Mim1, a protein required for the assembly of the TOM complex of mitochondria. <i>EMBO Reports</i> , 2005, 6, 57-62.	4.5	72
33	Cytosolic Hsp70 and Hsp40 chaperones enable the biogenesis of mitochondrial \hat{I}^2 -barrel proteins. <i>Journal of Cell Biology</i> , 2018, 217, 3091-3108.	5.2	72
34	Assembly of the TOB Complex of Mitochondria. <i>Journal of Biological Chemistry</i> , 2005, 280, 6434-6440.	3.4	70
35	A crucial role of Mim2 in the biogenesis of mitochondrial outer membrane proteins. <i>Journal of Cell Science</i> , 2012, 125, 3464-73.	2.0	69
36	The Role of Djrp1 in Import of the Mitochondrial Protein Mim1 Demonstrates Specificity between a Cochaperone and Its Substrate Protein. <i>Molecular and Cellular Biology</i> , 2013, 33, 4083-4094.	2.3	68

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37	Signal-Anchored Domains of Proteins of the Outer Membrane of Mitochondria. <i>Journal of Biological Chemistry</i> , 2003, 278, 42064-42071.	3.4	67
38	Reconstituted TOM Core Complex and Tim9/Tim10 Complex of Mitochondria Are Sufficient for Translocation of the ADP/ATP Carrier across Membranes. <i>Molecular Biology of the Cell</i> , 2004, 15, 1445-1458.	2.1	65
39	Biogenesis of the mitochondrial TOM complex. <i>Trends in Biochemical Sciences</i> , 2002, 27, 191-197.	7.5	64
40	The cytosolic chaperone Sti1 is relevant for mitochondrial biogenesis and morphology. <i>FEBS Journal</i> , 2016, 283, 3338-3352.	4.7	60
41	Roles of the Mdm10, Tom7, Mdm12, and Mmm1 Proteins in the Assembly of Mitochondrial Outer Membrane Proteins in <i>Neurospora crassa</i> . <i>Molecular Biology of the Cell</i> , 2010, 21, 1725-1736.	2.1	57
42	Assembly of Tom6 and Tom7 into the TOM Core Complex of <i>Neurospora crassa</i> . <i>Journal of Biological Chemistry</i> , 2001, 276, 17679-17685.	3.4	56
43	Mutations in <i>RHOT1</i> Disrupt Endoplasmic Reticulum-Mitochondria Contact Sites Interfering with Calcium Homeostasis and Mitochondrial Dynamics in Parkinson's Disease. <i>Antioxidants and Redox Signaling</i> , 2019, 31, 1213-1234.	5.4	56
44	Tom70 Is Essential for PINK1 Import into Mitochondria. <i>PLoS ONE</i> , 2013, 8, e58435.	2.5	49
45	The chaperone-binding activity of the mitochondrial surface receptor Tom70 protects the cytosol against mitoprotein-induced stress. <i>Cell Reports</i> , 2021, 35, 108936.	6.4	47
46	cis and trans Sites of the TOM Complex of Mitochondria in Unfolding and Initial Translocation of Preproteins. <i>Journal of Biological Chemistry</i> , 1998, 273, 8806-8813.	3.4	45
47	Structural Requirements of Tom40 for Assembly into Preexisting TOM Complexes of Mitochondria. <i>Molecular Biology of the Cell</i> , 2001, 12, 1189-1198.	2.1	43
48	Mitochondrial contact sites as platforms for phospholipid exchange. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 69-80.	2.4	43
49	Pex19 is involved in importing dually targeted tail-anchored proteins to both mitochondria and peroxisomes. <i>Traffic</i> , 2018, 19, 770-785.	2.7	43
50	Genetic and Functional Interactions between the Mitochondrial Outer Membrane Proteins Tom6 and Sam37. <i>Molecular and Cellular Biology</i> , 2009, 29, 5975-5988.	2.3	41
51	The Mitochondrial Porin, VDAC, Has Retained the Ability to Be Assembled in the Bacterial Outer Membrane. <i>Molecular Biology and Evolution</i> , 2010, 27, 887-895.	8.9	41
52	Biogenesis of beta-barrel proteins in evolutionary context. <i>International Journal of Medical Microbiology</i> , 2015, 305, 259-264.	3.6	41
53	An Essential Role for COPI in mRNA Localization to Mitochondria and Mitochondrial Function. <i>Cell Reports</i> , 2016, 15, 540-549.	6.4	41
54	The outer membrane form of the mitochondrial protein Mcr1 follows a TOM-independent membrane insertion pathway. <i>FEBS Letters</i> , 2008, 582, 855-860.	2.8	38

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55	Multiple functions of tail-anchor domains of mitochondrial outer membrane proteins. <i>FEBS Letters</i> , 2003, 555, 511-515.	2.8	36
56	The Endoplasmic Reticulum-Mitochondria Encounter Structure Complex Coordinates Coenzyme Q Biosynthesis. <i>Contact (Thousand Oaks (Ventura County, Calif))</i> , 2019, 2, 251525641882540.	1.3	35
57	The GET pathway can increase the risk of mitochondrial outer membrane proteins to be mistargeted to the ER. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	34
58	A novel heterozygous <i>OPA3</i> mutation located in the mitochondrial target sequence results in altered steady-state levels and fragmented mitochondrial network. <i>Journal of Medical Genetics</i> , 2013, 50, 848-858.	3.2	33
59	Triplet-pore structure of a highly divergent TOM complex of hydrogenosomes in <i>Trichomonas vaginalis</i> . <i>PLoS Biology</i> , 2019, 17, e3000098.	5.6	33
60	The Biogenesis of Mitochondrial Outer Membrane Proteins Show Variable Dependence on Import Factors. <i>IScience</i> , 2020, 23, 100779.	4.1	32
61	Evolutionary Conservation in Biogenesis of β -Barrel Proteins Allows Mitochondria to Assemble a Functional Bacterial Trimeric Autotransporter Protein. <i>Journal of Biological Chemistry</i> , 2014, 289, 29457-29470.	3.4	31
62	Mcp3 is a novel mitochondrial outer membrane protein that follows a unique IMP-dependent biogenesis pathway. <i>EMBO Reports</i> , 2016, 17, 965-981.	4.5	31
63	Biogenesis pathways of β -helical mitochondrial outer membrane proteins. <i>Biological Chemistry</i> , 2020, 401, 677-686.	2.5	31
64	Chloroplast β -Barrel Proteins Are Assembled into the Mitochondrial Outer Membrane in a Process That Depends on the TOM and TOB Complexes. <i>Journal of Biological Chemistry</i> , 2012, 287, 27467-27479.	3.4	30
65	Genome-Wide Screens in <i>Saccharomyces cerevisiae</i> Highlight a Role for Cardiolipin in Biogenesis of Mitochondrial Outer Membrane Multispan Proteins. <i>Molecular and Cellular Biology</i> , 2015, 35, 3200-3211.	2.3	30
66	Independent evolution of functionally exchangeable mitochondrial outer membrane import complexes. <i>ELife</i> , 2018, 7, .	6.0	30
67	Cnm1 mediates nucleus-mitochondria contact site formation in response to phospholipid levels. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	29
68	Mitochondria can recognize and assemble fragments of a β -barrel structure. <i>Molecular Biology of the Cell</i> , 2011, 22, 1638-1647.	2.1	28
69	Membrane integration of a mitochondrial signal-anchored protein does not require additional proteinaceous factors. <i>Biochemical Journal</i> , 2012, 442, 381-389.	3.7	23
70	Mitochondrion-Enriched Anionic Phospholipids Facilitate Flock House Virus RNA Polymerase Membrane Association. <i>Journal of Virology</i> , 2009, 83, 4498-4507.	3.4	22
71	Alterations in expression levels of deafness dystonia protein 1 affect mitochondrial morphology. <i>Human Molecular Genetics</i> , 2012, 21, 287-299.	2.9	22
72	Structural basis of client specificity in mitochondrial membrane-protein chaperones. <i>Science Advances</i> , 2020, 6, .	10.3	21

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73	Human Dopaminergic Neurons Lacking PINK1 Exhibit Disrupted Dopamine Metabolism Related to Vitamin B6 Co-Factors. <i>IScience</i> , 2020, 23, 101797.	4.1	20
74	Mitochondrial defects and neurodegeneration in mice overexpressing wild-type or G399S mutant HtrA2. <i>Human Molecular Genetics</i> , 2016, 25, 459-471.	2.9	19
75	Alternative Splicing Gives Rise to Different Isoforms of the <i>Neurospora crassa</i> Tob55 Protein That Vary in Their Ability to Insert β -Barrel Proteins Into the Outer Mitochondrial Membrane. <i>Genetics</i> , 2007, 177, 137-149.	2.9	18
76	Uncovering targeting priority to yeast peroxisomes using an in-cell competition assay. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21432-21440.	7.1	17
77	Unresolved mysteries in the biogenesis of mitochondrial membrane proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 1085-1090.	2.6	16
78	The enigmatic role of Mim1 in mitochondrial biogenesis. <i>European Journal of Cell Biology</i> , 2010, 89, 212-215.	3.6	15
79	Chapter 5 New Insights into the Mechanism of Precursor Protein Insertion into the Mitochondrial Membranes. <i>International Review of Cell and Molecular Biology</i> , 2008, 268, 147-190.	3.2	13
80	Coi1 is a novel assembly factor of the yeast complex III β complex IV supercomplex. <i>Molecular Biology of the Cell</i> , 2017, 28, 2609-2622.	2.1	13
81	Yeast phospholipid biosynthesis is linked to mRNA localization. <i>Journal of Cell Science</i> , 2014, 127, 3373-81.	2.0	11
82	The Biogenesis Process of VDAC β From Early Cytosolic Events to Its Final Membrane Integration. <i>Frontiers in Physiology</i> , 2021, 12, 732742.	2.8	11
83	Early stages in the biogenesis of eukaryotic β -barrel proteins. <i>FEBS Letters</i> , 2017, 591, 2671-2681.	2.8	10
84	The role of the individual TOM subunits in the association of PINK1 with depolarized mitochondria. <i>Journal of Molecular Medicine</i> , 2022, 100, 747-762.	3.9	10
85	Mitochondrial-bacterial hybrids of BamA/Tob55 suggest variable requirements for the membrane integration of β -barrel proteins. <i>Scientific Reports</i> , 2016, 6, 39053.	3.3	7
86	The Mitochondrial Protein OM45 Is Exposed to the Cytosol. <i>Journal of Biological Chemistry</i> , 2012, 287, 27415.	3.4	5
87	The mitochondrial intermembrane space-facing proteins Mcp2 and Tgl2 are involved in yeast lipid metabolism. <i>Molecular Biology of the Cell</i> , 2019, 30, 2681-2694.	2.1	5
88	The multi-factor modulated biogenesis of the mitochondrial multi-span protein Om14. <i>Journal of Cell Biology</i> , 2022, 221, .	5.2	5
89	The mitochondrial gate reveals its secrets. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 1083-1085.	8.2	4
90	Overexpression of branched-chain amino acid aminotransferases rescues the growth defects of cells lacking the Barth syndrome-related gene TAZ1. <i>Journal of Molecular Medicine</i> , 2019, 97, 269-279.	3.9	4

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91	Assembly and targeting of secretins in the bacterial outer membrane. <i>International Journal of Medical Microbiology</i> , 2019, 309, 151322.	3.6	1
92	Yeast can express and assemble bacterial secretins in the mitochondrial outer membrane. <i>Microbial Cell</i> , 2020, 7, 15-27.	3.2	1
93	Special section on "Protein translocation across or insertion into membranes". <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 840.	2.6	0
94	Hydrogenosomal tail-anchored proteins are targeted to both mitochondria and ER upon their expression in yeast cells. <i>PLoS ONE</i> , 2020, 15, e0237982.	2.5	0
95	Yeast Mitochondria as a Model System to Study the Biogenesis of Bacterial β -Barrel Proteins. <i>Methods in Molecular Biology</i> , 2015, 1329, 17-31.	0.9	0
96	Title is missing!. , 2020, 15, e0237982.		0
97	Title is missing!. , 2020, 15, e0237982.		0
98	Title is missing!. , 2020, 15, e0237982.		0
99	Title is missing!. , 2020, 15, e0237982.		0
100	Title is missing!. , 2020, 15, e0237982.		0
101	Title is missing!. , 2020, 15, e0237982.		0