

Structural Basis of Membrane Protein Chaperoning through Intermembrane Space

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Structural basis for client recognition and activity of Hsp40 chaperones. <i>Science</i> , 2019, 365, 1313-1319.	6.0	104
2	Coupling of import and assembly pathways in mitochondrial protein biogenesis. <i>Biological Chemistry</i> , 2019, 401, 117-129.	1.2	46
3	A MICOSâ€“TIM22 Association Promotes Carrier Import into Human Mitochondria. <i>Journal of Molecular Biology</i> , 2019, 431, 2835-2851.	2.0	43
4	Frustrated Interfaces Facilitate Dynamic Interactions between Native Client Proteins and Holdase Chaperones. <i>ChemBioChem</i> , 2019, 20, 2803-2806.	1.3	17
5	The Yeast Voltage-Dependent Anion Channel Porin: More IMPORTANT than Just Metabolite Transport. <i>Molecular Cell</i> , 2019, 73, 861-862.	4.5	3
6	Transport of Proteins into Mitochondria. <i>Protein Journal</i> , 2019, 38, 330-342.	0.7	116
7	Mitochondrial proteins: from biogenesis to functional networks. <i>Nature Reviews Molecular Cell Biology</i> , 2019, 20, 267-284.	16.1	569
8	Methyl TROSY spectroscopy: A versatile NMR approach to study challenging biological systems. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2020, 116, 56-84.	3.9	96
9	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
10	Studying protein import into mitochondria. <i>Methods in Cell Biology</i> , 2020, 155, 45-79.	0.5	20
11	Unveiling invisible protein states with NMR spectroscopy. <i>Current Opinion in Structural Biology</i> , 2020, 60, 39-49.	2.6	73
12	The Mitochondrial Outer Membrane Protein Tom70-Mediator in Protein Traffic, Membrane Contact Sites and Innate Immunity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7262.	1.8	38
13	Biogenesis of Mitochondrial Metabolite Carriers. <i>Biomolecules</i> , 2020, 10, 1008.	1.8	32
14	The selectivity filter of the mitochondrial protein import machinery. <i>BMC Biology</i> , 2020, 18, 156.	1.7	15
15	The intermembrane space protein Mix23 is a novel stress-induced mitochondrial import factor. <i>Journal of Biological Chemistry</i> , 2020, 295, 14686-14697.	1.6	14
16	Tim17 Updates: A Comprehensive Review of an Ancient Mitochondrial Protein Translocator. <i>Biomolecules</i> , 2020, 10, 1643.	1.8	17
17	Structural basis of client specificity in mitochondrial membrane-protein chaperones. <i>Science Advances</i> , 2020, 6, .	4.7	21
18	Mitochondrial Quality Control and Cellular Proteostasis: Two Sides of the Same Coin. <i>Frontiers in Physiology</i> , 2020, 11, 515.	1.3	45

#	ARTICLE	IF	CITATIONS
19	Defining the Substrate Spectrum of the TIM22 Complex Identifies Pyruvate Carrier Subunits as Unconventional Cargos. <i>Current Biology</i> , 2020, 30, 1119-1127.e5.	1.8	29
20	Current approaches for integrating solution NMR spectroscopy and small-angle scattering to study the structure and dynamics of biomolecular complexes. <i>Journal of Molecular Biology</i> , 2020, 432, 2890-2912.	2.0	17
21	Mitochondria-Associated Proteostasis. <i>Annual Review of Biophysics</i> , 2020, 49, 41-67.	4.5	49
22	Porins as helpers in mitochondrial protein translocation. <i>Biological Chemistry</i> , 2020, 401, 699-708.	1.2	13
23	Misconnecting the dots: altered mitochondrial protein-protein interactions and their role in neurodegenerative disorders. <i>Expert Review of Proteomics</i> , 2020, 17, 119-136.	1.3	6
24	Inter-domain dynamics in the chaperone SurA and multi-site binding to its outer membrane protein clients. <i>Nature Communications</i> , 2020, 11, 2155.	5.8	48
25	Automated assignment of methyl NMR spectra from large proteins. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2020, 118-119, 54-73.	3.9	23
26	Mechanisms and pathways of mitochondrial outer membrane protein biogenesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148323.	0.5	23
27	Proteomic Profiling of Mitochondrial-Derived Vesicles in Brain Reveals Enrichment of Respiratory Complex Sub-assemblies and Small TIM Chaperones. <i>Journal of Proteome Research</i> , 2021, 20, 506-517.	1.8	14
28	Molecular chaperones and their denaturing effect on client proteins. <i>Journal of Biomolecular NMR</i> , 2021, 75, 1-8.	1.6	8
29	The assembly of β -barrel membrane proteins by BAM and SAM. <i>Molecular Microbiology</i> , 2021, 115, 425-435.	1.2	18
30	Defining the architecture of the human TIM22 complex by chemical crosslinking. <i>FEBS Letters</i> , 2021, 595, 157-168.	1.3	7
31	Cryo-EM structure of the human mitochondrial translocase TIM22 complex. <i>Cell Research</i> , 2021, 31, 369-372.	5.7	50
32	Structure of the mitochondrial TIM22 complex from yeast. <i>Cell Research</i> , 2021, 31, 366-368.	5.7	27
33	Properdin oligomers adopt rigid extended conformations supporting function. <i>ELife</i> , 2021, 10, .	2.8	10
34	Mitochondrial sorting and assembly machinery operates by β -barrel switching. <i>Nature</i> , 2021, 590, 163-169.	13.7	60
35	NMR-Based Methods for Protein Analysis. <i>Analytical Chemistry</i> , 2021, 93, 1866-1879.	3.2	43
36	NMR spectroscopy captures the essential role of dynamics in regulating biomolecular function. <i>Cell</i> , 2021, 184, 577-595.	13.5	103

#	ARTICLE	IF	CITATIONS
37	Molecular Insights into Mitochondrial Protein Translocation and Human Disease. <i>Genes</i> , 2021, 12, 1031.	1.0	2
38	Diverse Functions of Tim50, a Component of the Mitochondrial Inner Membrane Protein Translocase. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7779.	1.8	5
39	The Biogenesis Process of VDAC “ From Early Cytosolic Events to Its Final Membrane Integration. <i>Frontiers in Physiology</i> , 2021, 12, 732742.	1.3	11
40	Short-form OPA1 is a molecular chaperone in mitochondrial intermembrane space. <i>Science China Life Sciences</i> , 2022, 65, 227-235.	2.3	5
41	Quality control of protein import into mitochondria. <i>Biochemical Journal</i> , 2021, 478, 3125-3143.	1.7	6
42	Role of the Mitochondrial Protein Import Machinery and Protein Processing in Heart Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 749756.	1.1	18
43	Redox-Mediated Regulation of Mitochondrial Biogenesis, Dynamics, and Respiratory Chain Assembly in Yeast and Human Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 720656.	1.8	25
44	Architecture and assembly dynamics of the essential mitochondrial chaperone complex TIM9-10. <i>Structure</i> , 2021, 29, 1065-1073.e4.	1.6	10
45	Protein import in mitochondria biogenesis: guided by targeting signals and sustained by dedicated chaperones. <i>RSC Advances</i> , 2021, 11, 32476-32493.	1.7	7
49	How do Chaperones Bind (Partly) Unfolded Client Proteins?. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 762005.	1.6	17
52	Structural Basis for Protein Translocation by the Translocase of the Outer Mitochondrial Membrane. <i>Seibutsu Butsuri</i> , 2020, 60, 280-283.	0.0	1
55	Mitochondrial Determinants of Anti-Cancer Drug-Induced Cardiotoxicity. <i>Biomedicines</i> , 2022, 10, 520.	1.4	14
56	Structures of <i>Tetrahymena</i> ’s respiratory chain reveal the diversity of eukaryotic core metabolism. <i>Science</i> , 2022, 376, 831-839.	6.0	45
57	Mitochondrial protein translocation machinery: From TOM structural biogenesis to functional regulation. <i>Journal of Biological Chemistry</i> , 2022, 298, 101870.	1.6	11
58	Solid-State NMR: Methods for Biological Solids. <i>Chemical Reviews</i> , 2022, 122, 9643-9737.	23.0	31
59	A journey through the gateway of polytopic inner membrane proteins: The carrier translocase machinery. <i>Current Opinion in Physiology</i> , 2022, 26, 100533.	0.9	1
60	Targeting and Insertion of Membrane Proteins in Mitochondria. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 803205.	1.8	16
61	Structural basis of DegP protease temperature-dependent activation. <i>Science Advances</i> , 2021, 7, eabj1816.	4.7	8

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62	Crosstalk between Mitochondrial Protein Import and Lipids. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5274.	1.8	6
63	Mechanistic insights into fungal mitochondrial outer membrane protein biogenesis. <i>Current Opinion in Structural Biology</i> , 2022, 74, 102383.	2.6	2
64	The hydrogenosome of <i>Trichomonas vaginalis</i> . <i>Journal of Eukaryotic Microbiology</i> , 2022, 69, e12922.	0.8	7
65	Describing Dynamic Chaperone-Client Complexes by Solution NMR Spectroscopy. <i>New Developments in NMR</i> , 2022, , 277-302.	0.1	0
66	NMR Observation of Sulfhydryl Signals in SARS-CoV-2 Main Protease Aids Structural Studies. <i>ChemBioChem</i> , 2022, 23, .	1.3	4
69	Folding of heterologous proteins in bacterial cell factories: Cellular mechanisms and engineering strategies. <i>Biotechnology Advances</i> , 2023, 63, 108079.	6.0	10
70	The role of heat shock proteins in preventing amyloid toxicity. <i>Frontiers in Molecular Biosciences</i> , 0, 9, .	1.6	2
71	Proteostasis in aging-associated ocular disease. <i>Molecular Aspects of Medicine</i> , 2022, 88, 101157.	2.7	10
72	Small heat shock proteins operate as molecular chaperones in the mitochondrial intermembrane space. <i>Nature Cell Biology</i> , 2023, 25, 467-480.	4.6	20
73	Mitochondrial protein transport: Versatility of translocases and mechanisms. <i>Molecular Cell</i> , 2023, 83, 890-910.	4.5	24
81	Solution NMR Studies of Chaperone-Client Systems. , 2023, , 86-135.		0
82	Studying Molecular Chaperones and Their Client Interactions by Nanometer Distance Restraints from Electron Paramagnetic Resonance Spectroscopy. , 2023, , 217-241.		0
84	Preparing Chaperone-Client Protein Complexes for Biophysical and Structural Studies. , 2023, , 136-161.		0
87	Modular Assembly of Mitochondrial Î ² -Barrel Proteins. <i>Methods in Molecular Biology</i> , 2024, , 201-220.	0.4	0