

Benedikt Westermann

List of Publications by Year in descending order

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87
papers

17,812
citations

50276

46
h-index

51608

86
g-index

94
all docs

94
docs citations

94
times ranked

26329
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	SNAREpins: Minimal Machinery for Membrane Fusion. <i>Cell</i> , 1998, 92, 759-772.	28.9	2,289
3	Mitochondrial fusion and fission in cell life and death. <i>Nature Reviews Molecular Cell Biology</i> , 2010, 11, 872-884.	37.0	1,615
4	Identification and Functional Expression of the Mitochondrial Pyruvate Carrier. <i>Science</i> , 2012, 337, 93-96.	12.6	588
5	Bioenergetic role of mitochondrial fusion and fission. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1833-1838.	1.0	537
6	Regulation of OPA1 processing and mitochondrial fusion by <i>m</i> -AAA protease isoenzymes and OMA1. <i>Journal of Cell Biology</i> , 2009, 187, 1023-1036.	5.2	500
7	Prohibitins control cell proliferation and apoptosis by regulating OPA1-dependent cristae morphogenesis in mitochondria. <i>Genes and Development</i> , 2008, 22, 476-488.	5.9	454
8	Genetic Basis of Mitochondrial Function and Morphology in <i>Saccharomyces cerevisiae</i> . <i>Molecular Biology of the Cell</i> , 2002, 13, 847-853.	2.1	408
9	A mitochondrial-focused genetic interaction map reveals a scaffold-like complex required for inner membrane organization in mitochondria. <i>Journal of Cell Biology</i> , 2011, 195, 323-340.	5.2	402
10	Mitochondria-targeted green fluorescent proteins: convenient tools for the study of organelle biogenesis in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2000, 16, 1421-1427.	1.7	358
11	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
12	DRP-1-mediated mitochondrial fragmentation during EGL-1-induced cell death in <i>C. elegans</i> . <i>Nature</i> , 2005, 433, 754-760.	27.8	290
13	The genetic interactome of prohibitins: coordinated control of cardiolipin and phosphatidylethanolamine by conserved regulators in mitochondria. <i>Journal of Cell Biology</i> , 2009, 184, 583-596.	5.2	265
14	Rapid and efficient fusion of phospholipid vesicles by the alpha-helical core of a SNARE complex in the absence of an N-terminal regulatory domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 12565-12570.	7.1	249
15	Mdj1p, a novel chaperone of the DnaJ family, is involved in mitochondrial biogenesis and protein folding. <i>Cell</i> , 1994, 77, 249-259.	28.9	240
16	Molecular Machinery of Mitochondrial Fusion and Fission. <i>Journal of Biological Chemistry</i> , 2008, 283, 13501-13505.	3.4	226
17	Mitochondrial ER Contacts Are Crucial for Mitophagy in Yeast. <i>Developmental Cell</i> , 2014, 28, 450-458.	7.0	219
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	Intramitochondrial Transport of Phosphatidic Acid in Yeast by a Lipid Transfer Protein. <i>Science</i> , 2012, 338, 815-818.	12.6	206
20	Genome-wide deletion mutant analysis reveals genes required for respiratory growth, mitochondrial genome maintenance and mitochondrial protein synthesis in <i>Saccharomyces cerevisiae</i> . <i>Genome Biology</i> , 2009, 10, R95.	9.6	166
21	Guidelines and recommendations on yeast cell death nomenclature. <i>Microbial Cell</i> , 2018, 5, 4-31.	3.2	158
22	Systematic Analysis of the Twin Cx9C Protein Family. <i>Journal of Molecular Biology</i> , 2009, 393, 356-368.	4.2	153
23	Role of Essential Genes in Mitochondrial Morphogenesis in <i>Saccharomyces cerevisiae</i> . <i>Molecular Biology of the Cell</i> , 2005, 16, 5410-5417.	2.1	151
24	Merging mitochondria matters. <i>EMBO Reports</i> , 2002, 3, 527-531.	4.5	140
25	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
26	The mitochondrial proteins Ssq1 and Jac1 are required for the assembly of iron sulfur clusters in mitochondria. Edited by B. Holland. <i>Journal of Molecular Biology</i> , 2001, 307, 815-825.	4.2	133
27	Mdm30 Is an F-Box Protein Required for Maintenance of Fusion-competent Mitochondria in Yeast. <i>Molecular Biology of the Cell</i> , 2003, 14, 2303-2313.	2.1	126
28	Snarepins Are Functionally Resistant to Disruption by Nsf and $\hat{1}\pm$ SNAP. <i>Journal of Cell Biology</i> , 2000, 149, 1063-1072.	5.2	113
29	Spatial and temporal dynamics of budding yeast mitochondria lacking the division component Fis1p. <i>Journal of Cell Science</i> , 2003, 116, 2005-2014.	2.0	113
30	The inner membrane protein Mdm33 controls mitochondrial morphology in yeast. <i>Journal of Cell Biology</i> , 2003, 160, 553-564.	5.2	109
31	Regulation of mitochondrial fusion by the F-box protein Mdm30 involves proteasome-independent turnover of Fzo1. <i>Journal of Cell Biology</i> , 2006, 173, 645-650.	5.2	108
32	The class V myosin motor protein, Myo2, plays a major role in mitochondrial motility in <i>Saccharomyces cerevisiae</i> . <i>Journal of Cell Biology</i> , 2008, 181, 119-130.	5.2	104
33	Mdm31 and Mdm32 are inner membrane proteins required for maintenance of mitochondrial shape and stability of mitochondrial DNA nucleoids in yeast. <i>Journal of Cell Biology</i> , 2005, 168, 103-115.	5.2	93
34	Making connections: interorganelle contacts orchestrate mitochondrial behavior. <i>Trends in Cell Biology</i> , 2014, 24, 537-545.	7.9	92
35	Mitochondrial dynamics in model organisms: What yeasts, worms and flies have taught us about fusion and fission of mitochondria. <i>Seminars in Cell and Developmental Biology</i> , 2010, 21, 542-549.	5.0	86
36	The yeast cell cortical protein Num1 integrates mitochondrial dynamics into cellular architecture. <i>Journal of Cell Science</i> , 2013, 126, 2924-30.	2.0	86

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37	The small GTPase Arf1 modulates mitochondrial morphology and function. <i>EMBO Journal</i> , 2014, 33, 2659-2675.	7.8	81
38	An evidence based hypothesis on the existence of two pathways of mitochondrial crista formation. <i>ELife</i> , 2016, 5, .	6.0	81
39	Mitochondrial inheritance in yeast. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1039-1046.	1.0	69
40	The myosin-related motor protein Myo2 is an essential mediator of bud-directed mitochondrial movement in yeast. <i>Journal of Cell Biology</i> , 2011, 194, 473-488.	5.2	67
41	Nonredundant Roles of Mitochondria-associated F-Box Proteins Mfb1 and Mdm30 in Maintenance of Mitochondrial Morphology in Yeast. <i>Molecular Biology of the Cell</i> , 2006, 17, 3745-3755.	2.1	66
42	Aim24 and MICOS modulate respiratory function, tafazzin-related cardiolipin modification and mitochondrial architecture. <i>ELife</i> , 2014, 3, e01684.	6.0	64
43	Interaction of mitochondria with microtubules in the filamentous fungus <i>Neurospora crassa</i> . <i>Journal of Cell Science</i> , 2002, 115, 1931-1937.	2.0	58
44	The mitochondria-plasma membrane contact site. <i>Current Opinion in Cell Biology</i> , 2015, 35, 1-6.	5.4	50
45	Role of the mitochondrial DnaJ homologue, Mdj1p, in the prevention of heat-induced protein aggregation. <i>FEBS Letters</i> , 1996, 380, 142-146.	2.8	49
46	Mitochondrial membrane fusion. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2003, 1641, 195-202.	4.1	48
47	Mdm36 Is a Mitochondrial Fission-promoting Protein in <i>Saccharomyces cerevisiae</i> . <i>Molecular Biology of the Cell</i> , 2010, 21, 2443-2452.	2.1	48
48	Mitochondrial dynamics in yeast cell death and aging. <i>Biochemical Society Transactions</i> , 2011, 39, 1520-1526.	3.4	47
49	Fusion, fission, and transport control asymmetric inheritance of mitochondria and protein aggregates. <i>Journal of Cell Biology</i> , 2017, 216, 2481-2498.	5.2	46
50	Molecular machinery of mitochondrial dynamics in yeast. <i>Biological Chemistry</i> , 2007, 388, 917-926.	2.5	44
51	Mdj2p, a novel DnaJ homolog in the mitochondrial inner membrane of the yeast <i>Saccharomyces cerevisiae</i> . <i>Journal of Molecular Biology</i> , 1997, 272, 477-483.	4.2	43
52	Role of MMM1 in Maintaining Mitochondrial Morphology in <i>Neurospora crassa</i> . <i>Molecular Biology of the Cell</i> , 2000, 11, 2961-2971.	2.1	42
53	Interaction of mitochondria with microtubules in the filamentous fungus <i>Neurospora crassa</i> . <i>Journal of Cell Science</i> , 2002, 115, 1931-7.	2.0	41
54	3D Ultrastructural Organization of Whole <i>Chlamydomonas reinhardtii</i> Cells Studied by Nanoscale Soft X-Ray Tomography. <i>PLoS ONE</i> , 2012, 7, e53293.	2.5	40

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55	'Omics' of the mitochondrion. <i>Nature Biotechnology</i> , 2003, 21, 239-240.	17.5	39
56	<i>Saccharomyces cerevisiae</i> as a Model Organism to Study Mitochondrial Biology. <i>Methods in Molecular Biology</i> , 2007, 372, 81-90.	0.9	39
57	Mitochondrial dynamics in filamentous fungi. <i>Fungal Genetics and Biology</i> , 2002, 36, 91-97.	2.1	38
58	Dual Role of the Mitochondrial Chaperone Mdj1p in Inheritance of Mitochondrial DNA in Yeast. <i>Molecular and Cellular Biology</i> , 1999, 19, 8201-8210.	2.3	37
59	Nitric Oxide Links Mitochondrial Fission to Alzheimer's Disease. <i>Science Signaling</i> , 2009, 2, pe29.	3.6	36
60	Role of Unc104/KIF1-related Motor Proteins in Mitochondrial Transport in <i>Neurospora crassa</i> . <i>Molecular Biology of the Cell</i> , 2005, 16, 153-161.	2.1	34
61	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
62	Pathways shaping the mitochondrial inner membrane. <i>Open Biology</i> , 2021, 11, 210238.	3.6	34
63	Analysis of mitochondrial translation products in Vivo and in organello in yeast. <i>Methods in Cell Biology</i> , 2001, 65, 429-438.	1.1	32
64	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
65	ER-mitochondria contacts as sites of mitophagosome formation. <i>Autophagy</i> , 2014, 10, 1346-1347.	9.1	30
66	Analysis of protein-protein interactions in mitochondria by coimmunoprecipitation and chemical cross-linking. <i>Methods in Cell Biology</i> , 2001, 65, 217-230.	1.1	29
67	Organelle Dynamics: ER Embraces Mitochondria for Fission. <i>Current Biology</i> , 2011, 21, R922-R924.	3.9	26
68	With the Help of MOM: Mitochondrial Contributions to Cellular Quality Control. <i>Trends in Cell Biology</i> , 2017, 27, 441-452.	7.9	26
69	Lipid Droplets Guard Mitochondria during Autophagy. <i>Developmental Cell</i> , 2017, 42, 1-2.	7.0	24
70	Interaction of MDM33 with mitochondrial inner membrane homeostasis pathways in yeast. <i>Scientific Reports</i> , 2016, 5, 18344.	3.3	20
71	Systematic analysis of nuclear gene function in respiratory growth and expression of the mitochondrial genome in <i>S. cerevisiae</i> . <i>Microbial Cell</i> , 2020, 7, 234-249.	3.2	20
72	Increased levels of mitochondrial import factor Mia40 prevent the aggregation of polyQ proteins in the cytosol. <i>EMBO Journal</i> , 2021, 40, e107913.	7.8	18

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73	XDJ1, a gene encoding a novel non-essential DnaJ homologue from <i>Saccharomyces cerevisiae</i> . <i>Gene</i> , 1994, 145, 121-124.	2.2	17
74	Analysis of Yeast Mitochondria by Electron Microscopy. <i>Methods in Molecular Biology</i> , 2017, 1567, 293-314.	0.9	15
75	Impact of F1Fo-ATP-synthase dimer assembly factors on mitochondrial function and organismic aging. <i>Microbial Cell</i> , 2018, 5, 198-207.	3.2	15
76	Mitochondrial fusion in <i>Chlamydomonas reinhardtii</i> zygotes. <i>European Journal of Cell Biology</i> , 2013, 92, 80-86.	3.6	14
77	Coi1 is a novel assembly factor of the yeast complex III"complex IV supercomplex. <i>Molecular Biology of the Cell</i> , 2017, 28, 2609-2622.	2.1	13
78	Asymmetric inheritance of mitochondria in yeast. <i>Biological Chemistry</i> , 2020, 401, 779-791.	2.5	12
79	Mitochondria Are Clamped to Vacuoles for Lipid Transport. <i>Developmental Cell</i> , 2014, 30, 1-2.	7.0	11
80	Protein import into mitochondria of <i>Neurospora crassa</i> . <i>Fungal Genetics and Biology</i> , 2002, 36, 85-90.	2.1	8
81	Analyzing Membrane Dynamics with Live Cell Fluorescence Microscopy with a Focus on Yeast Mitochondria. <i>Methods in Molecular Biology</i> , 2013, 1033, 275-283.	0.9	7
82	Analysis of Protein"Protein Interactions in Mitochondria. <i>Methods in Cell Biology</i> , 2007, 80, 743-759.	1.1	4
83	Mitochondria"targeted green fluorescent proteins: convenient tools for the study of organelle biogenesis in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2000, 16, 1421-1427.	1.7	4
84	Mitochondrial shape alteration by metabolites. <i>Nature Cell Biology</i> , 2022, 24, 410-412.	10.3	2
85	Focus on mitochondria: introducing a new series in <i>Trends in Cell Biology</i> . <i>Trends in Cell Biology</i> , 2007, 17, 417-418.	7.9	1
86	Mitochondria are mixed during cell division. <i>Nature</i> , 2021, 591, 535-537.	27.8	1
87	Mitochondrial dynamics in cell life and death. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2006, 1763, 413.	4.1	0