

Naotada Ishihara

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59 papers	10,227 citations	36 h-index	62 g-index
62 ext. papers	11,542 ext. citations	7.9 avg, IF	5.88 L-index

#	Paper	IF	Citations
59	A ubiquitin-like system mediates protein lipidation. <i>Nature</i> , 2000 , 408, 488-92	50.4	1494
58	Mitotic phosphorylation of dynamin-related GTPase Drp1 participates in mitochondrial fission. <i>Journal of Biological Chemistry</i> , 2007 , 282, 11521-9	5.4	823
57	Two distinct Vps34 phosphatidylinositol 3-kinase complexes function in autophagy and carboxypeptidase Y sorting in <i>Saccharomyces cerevisiae</i> . <i>Journal of Cell Biology</i> , 2001 , 152, 519-30	7.3	811
56	Mitochondrial fission factor Drp1 is essential for embryonic development and synapse formation in mice. <i>Nature Cell Biology</i> , 2009 , 11, 958-66	23.4	745
55	Formation process of autophagosome is traced with Apg8/Aut7p in yeast. <i>Journal of Cell Biology</i> , 1999 , 147, 435-46	7.3	722
54	Regulation of mitochondrial morphology through proteolytic cleavage of OPA1. <i>EMBO Journal</i> , 2006 , 25, 2966-77	13	652
53	Mitofusin 1 and 2 play distinct roles in mitochondrial fusion reactions via GTPase activity. <i>Journal of Cell Science</i> , 2004 , 117, 6535-46	5.3	502
52	Parkin mediates proteasome-dependent protein degradation and rupture of the outer mitochondrial membrane. <i>Journal of Biological Chemistry</i> , 2011 , 286, 19630-40	5.4	444
51	Formation of the approximately 350-kDa Apg12-Apg5-Apg16 multimeric complex, mediated by Apg16 oligomerization, is essential for autophagy in yeast. <i>Journal of Biological Chemistry</i> , 2002 , 277, 18619-25	5.4	315
50	New insights into the function and regulation of mitochondrial fission. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013 , 1833, 1256-68	4.9	310
49	Two mitofusin proteins, mammalian homologues of FZO, with distinct functions are both required for mitochondrial fusion. <i>Journal of Biochemistry</i> , 2003 , 134, 333-44	3.1	300
48	Autophagosome requires specific early Sec proteins for its formation and NSF/SNARE for vacuolar fusion. <i>Molecular Biology of the Cell</i> , 2001 , 12, 3690-702	3.5	296
47	Export of mitochondrial AIF in response to proapoptotic stimuli depends on processing at the intermembrane space. <i>EMBO Journal</i> , 2005 , 24, 1375-86	13	286
46	Mammalian Atg2 proteins are essential for autophagosome formation and important for regulation of size and distribution of lipid droplets. <i>Molecular Biology of the Cell</i> , 2012 , 23, 896-909	3.5	279
45	Regulation of mitochondrial morphology by membrane potential, and DRP1-dependent division and FZO1-dependent fusion reaction in mammalian cells. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 301, 891-8	3.4	224
44	Molecular basis of selective mitochondrial fusion by heterotypic action between OPA1 and cardiolipin. <i>Nature Cell Biology</i> , 2017 , 19, 856-863	23.4	177
43	Mitofusin 2 inhibits mitochondrial antiviral signaling. <i>Science Signaling</i> , 2009 , 2, ra47	8.8	175

42	Dynamics of nucleoid structure regulated by mitochondrial fission contributes to cristae reformation and release of cytochrome c. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 11863-8	11.5	143
41	Dynamics of mitochondrial DNA nucleoids regulated by mitochondrial fission is essential for maintenance of homogeneously active mitochondria during neonatal heart development. <i>Molecular and Cellular Biology</i> , 2015 , 35, 211-23	4.8	112
40	Rhomboid protease PARL mediates the mitochondrial membrane potential loss-induced cleavage of PGAM5. <i>Journal of Biological Chemistry</i> , 2012 , 287, 34635-45	5.4	110
39	Circadian Control of DRP1 Activity Regulates Mitochondrial Dynamics and Bioenergetics. <i>Cell Metabolism</i> , 2018 , 27, 657-666.e5	24.6	103
38	A role for the ancient SNARE syntaxin 17 in regulating mitochondrial division. <i>Developmental Cell</i> , 2015 , 32, 304-17	10.2	98
37	Identification of a novel protein that regulates mitochondrial fusion by modulating mitofusin (Mfn) protein function. <i>Journal of Cell Science</i> , 2006 , 119, 4913-25	5.3	95
36	Characterization of the mitochondrial protein LETM1, which maintains the mitochondrial tubular shapes and interacts with the AAA-ATPase BCS1L. <i>Journal of Cell Science</i> , 2008 , 121, 2588-600	5.3	92
35	Fis1 acts as a mitochondrial recruitment factor for TBC1D15 that is involved in regulation of mitochondrial morphology. <i>Journal of Cell Science</i> , 2013 , 126, 176-85	5.3	86
34	Disruption of mitochondrial fission in the liver protects mice from diet-induced obesity and metabolic deterioration. <i>Diabetologia</i> , 2015 , 58, 2371-80	10.3	74
33	Mitochondrial fission factor Drp1 maintains oocyte quality via dynamic rearrangement of multiple organelles. <i>Current Biology</i> , 2014 , 24, 2451-8	6.3	74
32	Synaptic dysfunction, memory deficits and hippocampal atrophy due to ablation of mitochondrial fission in adult forebrain neurons. <i>Cell Death and Differentiation</i> , 2016 , 23, 18-28	12.7	63
31	Uncoupled mitochondria quickly shorten along their long axis to form indented spheroids, instead of rings, in a fission-independent manner. <i>Scientific Reports</i> , 2018 , 8, 350	4.9	63
30	Analysis of functional domains of rat mitochondrial Fis1, the mitochondrial fission-stimulating protein. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 333, 650-9	3.4	61
29	Mammalian mitochondrial endonuclease G. Digestion of R-loops and localization in intermembrane space. <i>FEBS Journal</i> , 2002 , 269, 5765-70		56
28	CDK5 phosphorylates DRP1 and drives mitochondrial defects in NMDA-induced neuronal death. <i>Human Molecular Genetics</i> , 2015 , 24, 4573-83	5.6	50
27	Regulation and physiologic functions of GTPases in mitochondrial fusion and fission in mammals. <i>Antioxidants and Redox Signaling</i> , 2013 , 19, 389-99	8.4	49
26	-Glutamate is metabolized in the heart mitochondria. <i>Scientific Reports</i> , 2017 , 7, 43911	4.9	43
25	Identification of the protein import components of the rat mitochondrial inner membrane, rTIM17, rTIM23, and rTIM44. <i>Journal of Biochemistry</i> , 1998 , 123, 722-32	3.1	41

24	Mitochondria-type GPAT is required for mitochondrial fusion. <i>EMBO Journal</i> , 2013 , 32, 1265-79	13	36
23	Malfolded cytochrome P-450(M1) localized in unusual membrane structures of the endoplasmic reticulum in cultured animal cells. <i>Journal of Biochemistry</i> , 1995 , 118, 397-404	3.1	29
22	Mitochondrial fission is an acute and adaptive response in injured motor neurons. <i>Scientific Reports</i> , 2016 , 6, 28331	4.9	29
21	Distinct types of protease systems are involved in homeostasis regulation of mitochondrial morphology via balanced fusion and fission. <i>Genes To Cells</i> , 2016 , 21, 408-24	2.3	28
20	Relationship between OPA1 and cardiolipin in mitochondrial inner-membrane fusion. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018 , 1859, 951-957	4.6	25
19	Physiological roles of mitochondrial fission in cultured cells and mouse development. <i>Annals of the New York Academy of Sciences</i> , 2015 , 1350, 77-81	6.5	18
18	A receptor for eating mitochondria. <i>Developmental Cell</i> , 2009 , 17, 1-2	10.2	15
17	Aclarubicin, an anthracycline anti-cancer drug, fluorescently contrasts mitochondria and reduces the oxygen consumption rate in living human cells. <i>Toxicology Letters</i> , 2017 , 277, 109-114	4.4	10
16	Mitochondrial nucleoid morphology and respiratory function are altered in Drp1-deficient HeLa cells. <i>Journal of Biochemistry</i> , 2020 , 167, 287-294	3.1	9
15	Mitochondrial dynamics and interorganellar communication in the development and dysmorphism of mammalian oocytes. <i>Journal of Biochemistry</i> , 2020 , 167, 257-266	3.1	8
14	Characterization of the initial steps of precursor import into rat liver mitoplasts. <i>Journal of Biochemistry</i> , 1998 , 124, 824-34	3.1	7
13	MAVS is energized by Mff which senses mitochondrial metabolism via AMPK for acute antiviral immunity. <i>Nature Communications</i> , 2020 , 11, 5711	17.4	7
12	Three-dimensional analysis of somatic mitochondrial dynamics in fission-deficient injured motor neurons using FIB/SEM. <i>Journal of Comparative Neurology</i> , 2017 , 525, 2535-2548	3.4	6
11	Cell-free mitochondrial fusion assay detected by specific protease reaction revealed Ca ²⁺ as regulator of mitofusin-dependent mitochondrial fusion. <i>Journal of Biochemistry</i> , 2017 , 162, 287-294	3.1	5
10	COX assembly factor ccdc56 regulates mitochondrial morphology by affecting mitochondrial recruitment of Drp1. <i>FEBS Letters</i> , 2015 , 589, 3126-32	3.8	5
9	Mitochondrial hyperfusion causes neuropathy in a fly model of CMT2A. <i>EMBO Reports</i> , 2018 , 19,	6.5	5
8	Non-alcoholic fatty liver disease in mice with hepatocyte-specific deletion of mitochondrial fission factor. <i>Diabetologia</i> , 2021 , 64, 2092-2107	10.3	5
7	PARL paves the way to apoptosis. <i>Nature Cell Biology</i> , 2017 , 19, 263-265	23.4	4

6	Distal control of mitochondrial biogenesis and respiratory activity by extracellular lactate caused by large-scale deletion of mitochondrial DNA. <i>Pharmacological Research</i> , 2020 , 160, 105204	10.2	3
5	Expression and purification of recombinant human L-OPA1 using BmNPV bacmid-silkworm expression system. <i>Protocol Exchange</i> ,		2
4	Multiple assay systems to analyze the dynamics of mitochondrial nucleoids in living mammalian cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021 , 1865, 129874	4	1
3	Inhibition of mitochondrial fission protects podocytes from albumin-induced cell damage in diabetic kidney disease.. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2022 , 1868, 166368	6.9	1
2	Drp1 SUMO/deSUMOylation by Senp5 isoforms influences ER tubulation and mitochondrial dynamics to regulate brain development.. <i>IScience</i> , 2021 , 24, 103484	6.1	0
1	Analysis of Mitochondrial Membrane Fusion GTPase OPA1 Expressed by the Silkworm Expression System. <i>Methods in Molecular Biology</i> , 2020 , 2159, 115-127	1.4	