Masahide Oku

List of Publications by Year
in descending order

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46 papers	2,248 citations	304602 22 h-index	243529 44 g-index
46 all docs	46 docs citations	46 times ranked	4810 citing authors

#	Article	IF	Citations
1	Pexophagy: The Selective Autophagy of Peroxisomes. Autophagy, 2005, 1, 75-83.	4.3	250
2	Pexophagy: Autophagic degradation of peroxisomes. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 1767-1775.	1.9	193
3	Three Distinct Types of Microautophagy Based on Membrane Dynamics and Molecular Machineries. BioEssays, 2018, 40, e1800008.	1.2	180
4	Mitochondrial impairment triggers cytosolic oxidative stress and cell death following proteasome inhibition. Scientific Reports, 2014, 4, 5896.	1.6	168
5	Atg26-Mediated Pexophagy Is Required for Host Invasion by the Plant Pathogenic Fungus Colletotrichum orbiculare Â Â. Plant Cell, 2009, 21, 1291-1304.	3.1	138
6	Evidence for ESCRT- and clathrin-dependent microautophagy. Journal of Cell Biology, 2017, 216, 3263-3274.	2.3	127
7	Yeast Methylotrophy: Metabolism, Gene Regulation and Peroxisome Homeostasis. International Journal of Microbiology, 2011, 2011, 1-8.	0.9	113
8	Paz2 and 13 otherPAZgene products regulate vacuolar engulfment of peroxisomes during micropexophagy. Genes To Cells, 2002, 7, 75-90.	0.5	109
9	A Novel Fluorescent Sensor Protein for Visualization of Redox States in the Cytoplasm and in Peroxisomes. Molecular and Cellular Biology, 2010, 30, 3758-3766.	1.1	100
10	Peroxisome degradation requires catalytically active sterol glucosyltransferase with a GRAM domain. EMBO Journal, 2003, 22, 3231-3241.	3.5	96
11	PI4P-signaling pathway for the synthesis of a nascent membrane structure in selective autophagy. Journal of Cell Biology, 2006, 173, 709-717.	2.3	77
12	Peroxisomes as dynamic organelles: autophagic degradation. FEBS Journal, 2010, 277, 3289-3294.	2.2	72
13	A Sorting Nexin PpAtg24 Regulates Vacuolar Membrane Dynamics during Pexophagy via Binding to Phosphatidylinositol-3-Phosphate. Molecular Biology of the Cell, 2005, 16, 446-457.	0.9	69
14	Atg8 regulates vacuolar membrane dynamics in a lipidation-independent manner in Pichia pastoris. Journal of Cell Science, 2010, 123, 4107-4116.	1.2	52
15	Yeast Methylotrophy and Autophagy in a Methanol-Oscillating Environment on Growing Arabidopsis thaliana Leaves. PLoS ONE, 2011, 6, e25257.	1.1	51
16	Pexophagy in yeasts. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 992-998.	1.9	48
17	Atg18 phosphoregulation controls organellar dynamics by modulating its phosphoinositide-binding activity. Journal of Cell Biology, 2013, 202, 685-698.	2.3	45
18	The Tor and Sin3-Rpd3 complex regulate expression of the mitophagy receptor protein Atg32. Journal of Cell Science, 2014, 127, 3184-96.	1.2	40

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19	Evolution from covalent conjugation to non-covalent interaction in the ubiquitin-like ATG12 system. Nature Structural and Molecular Biology, 2019, 26, 289-296.	3.6	39
20	A defect of the vacuolar putative lipase Atg15 accelerates degradation of lipid droplets through lipolysis. Autophagy, 2015, 11, 1247-1258.	4.3	32
21	Role of Vac8 in Formation of the Vacuolar Sequestering Membrane during Micropexophagy. Autophagy, 2006, 2, 272-279.	4.3	28
22	Mechanism for Remodeling of the Acyl Chain Composition of Cardiolipin Catalyzed by Saccharomyces cerevisiae Tafazzin. Journal of Biological Chemistry, 2016, 291, 15491-15502.	1.6	24
23	Lagâ€phase autophagy in the methylotrophic yeast Pichia pastoris. Genes To Cells, 2009, 14, 861-870.	0.5	18
24	Yeast nitrogen utilization in the phyllosphere during plant lifespan under regulation of autophagy. Scientific Reports, 2015, 5, 9719.	1.6	17
25	Role of Acyl Chain Composition of Phosphatidylcholine in Tafazzin-Mediated Remodeling of Cardiolipin in Liposomes. Biochemistry, 2017, 56, 6268-6280.	1.2	17
26	Functions of PI4P and Sterol Glucoside Necessary for the Synthesis of a Nascent Membrane Structure During Pexophagy. Autophagy, 2007, 3, 35-37.	4.3	16
27	Assessment of Physiological Redox State with Novel FRET Protein Probes. Antioxidants and Redox Signaling, 2012, 16, 698-704.	2.5	15
28	A fluorescence resonance energy transfer (FRET)â€based redox sensor reveals physiological role of thioredoxin in the yeast Saccharomyces cerevisiae. FEBS Letters, 2013, 587, 793-798.	1.3	14
29	A peroxisome deficiencyâ€“induced reductive cytosol state up-regulates the brain-derived neurotrophic factor pathway. Journal of Biological Chemistry, 2020, 295, 5321-5334.	1.6	12
30	Autophagy-independent function of Atg8 in lipid droplet dynamics in yeast. Journal of Biochemistry, 2016, 161, mvw078.	0.9	10
31	Ethanol represses the expression of methanol-inducible genes via acetyl-CoA synthesis in the yeast Komagataella phaffii. Scientific Reports, 2018, 8, 18051.	1.6	10
32	The emerging role of autophagy in peroxisome dynamics and lipid metabolism of phyllosphere microorganisms. Frontiers in Plant Science, 2014, 5, 81.	1.7	9
33	Peroxisomal Fba2p and Tal2p complementally function in the rearrangement pathway for xylulose 5-phosphate in the methylotrophic yeast Pichia pastoris. Journal of Bioscience and Bioengineering, 2019, 128, 33-38.	1.1	9
34	Chapter 15 Pexophagy in Pichia pastoris. Methods in Enzymology, 2008, 451, 217-228.	0.4	8
35	Regulation of nitrate and methylamine metabolism by multiple nitrogen sources in the methylotrophic yeastCandida boidinii. FEMS Yeast Research, 2015, 15, fov084.	1.1	7
36	Inhibition of surgical trauma-enhanced peritoneal dissemination of tumor cells by human catalase derivatives in mice. Free Radical Biology and Medicine, 2011, 51, 773-779.	1.3	6

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37	Atg21 regulates pexophagy via its PI(3)P-binding activity inPichia pastoris. FEMS Yeast Research, 2014, 14, 435-444.	1.1	6
38	The methanol sensor Wsc1 and MAPK Mpk1 suppress degradation of methanol-induced peroxisomes in methylotrophic yeast. Journal of Cell Science, 2021, 134, .	1.2	6
39	Control of hypoxia-induced tumor cell adhesion by cytophilic human catalase. Free Radical Biology and Medicine, 2009, 47, 1772-1778.	1.3	4
40	Regulation of Peroxisome Homeostasis by Post-Translational Modification in the Methylotrophic Yeast Komagataella phaffii. Frontiers in Cell and Developmental Biology, 2022, 10, 887806.	1.8	4
41	Hyper-Activation of the Target of Rapamycin (Tor) Kinase 1 Decreases Intracellular Glutathione Content inSaccharomyces cerevisiaeas Revealed by LC-MS/MS Analysis. Bioscience, Biotechnology and Biochemistry, 2013, 77, 1608-1611.	0.6	3
42	Experimental Systems to Study Yeast Pexophagy. Methods in Molecular Biology, 2017, 1595, 249-255.	0.4	3
43	Functional link between <scp>R</scp>ab <scp>GTP</scp>aseâ€mediated membrane trafficking and <scp>PI</scp>4,5P₂ signaling. Genes To Cells, 2014, 19, 177-197.	0.5	2
44	Atg18 lifts up from and lands on the vacuolar membrane mediated by phosphorylation of its propellers. Autophagy, 2013, 9, 2161-2162.	4.3	1
45	Atg8 regulates vacuolar membrane dynamics in a lipidation-independent manner in Pichia pastoris. Development (Cambridge), 2010, 137, e2406-e2406.	1.2	0
46	Peroxisome Degradation and Its Molecular Machinery. , 2019, , 43-58.		0