Yoshinori Ohsumi

List of Publications by Year in Descending Order

213 papers	48,547 citations	96 h-index	220 g-index
225 ext. papers	53,651 ext. citations	8.6 avg, IF	7.6 L-index

#	Paper	IF	Citations
213	Bur1 functions with TORC1 for vacuole-mediated cell cycle progression.. *EMBO Reports*, **2022**, e53477	6.5	1
212	Selectivity of mRNA degradation by autophagy in yeast. *Nature Communications*, **2021**, 12, 2316	17.4	6
211	Membrane perturbation by lipidated Atg8 underlies autophagosome biogenesis. *Nature Structural and Molecular Biology*, **2021**, 28, 583-593	17.6	9
210	Mitotic phosphorylation of the ULK complex regulates cell cycle progression. *PLoS Biology*, **2020**, 18, e3000718	9.7	2
209	Liquidity Is a Critical Determinant for Selective Autophagy of Protein Condensates. *Molecular Cell*, **2020**, 77, 1163-1175.e9	17.6	62
208	Phase separation organizes the site of autophagosome formation. *Nature*, **2020**, 578, 301-305	50.4	138
207	TORC1 inactivation stimulates autophagy of nucleoporin and nuclear pore complexes. *Journal of Cell Biology*, **2020**, 219,	7.3	22
206	Autophagy facilitates adaptation of budding yeast to respiratory growth by recycling serine for one-carbon metabolism. *Nature Communications*, **2020**, 11, 5052	17.4	7
205	Atg9 is a lipid scramblase that mediates autophagosomal membrane expansion. *Nature Structural and Molecular Biology*, **2020**, 27, 1185-1193	17.6	97
204	Autophagy Increases Zinc Bioavailability to Avoid Light-Mediated Reactive Oxygen Species Production under Zinc Deficiency. *Plant Physiology*, **2020**, 182, 1284-1296	6.6	22
203	Atg2 mediates direct lipid transfer between membranes for autophagosome formation. *Nature Structural and Molecular Biology*, **2019**, 26, 281-288	17.6	178
202	Two distinct mechanisms target the autophagy-related E3 complex to the pre-autophagosomal structure. *ELife*, **2019**, 8,	8.9	35
201	Analysis of autophagy activated during changes in carbon source availability in yeast cells. *Journal of Biological Chemistry*, **2019**, 294, 5590-5603	5.4	13
200	Unveiling the Molecular Mechanisms of Plant Autophagy-From Autophagosomes to Vacuoles in Plants. *Plant and Cell Physiology*, **2018**, 59, 1337-1344	4.9	49
199	Lipidation-independent vacuolar functions of Atg8 rely on its noncanonical interaction with a vacuole membrane protein. *ELife*, **2018**, 7,	8.9	20
198	Atg7 Activates an Autophagy-Essential Ubiquitin-like Protein Atg8 through Multi-Step Recognition. *Journal of Molecular Biology*, **2018**, 430, 249-257	6.5	20
197	The Atg2-Atg18 complex tethers pre-autophagosomal membranes to the endoplasmic reticulum for autophagosome formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 10363-10368	11.5	125

196	The Yeast Vacuole: A Paradigm for Plant Cell Biologists? **2018**, 1-21		1
195	Zinc starvation induces autophagy in yeast. *Journal of Biological Chemistry*, **2017**, 292, 8520-8530	5.4	40
194	Recycling of iron via autophagy is critical for the transition from glycolytic to respiratory growth. *Journal of Biological Chemistry*, **2017**, 292, 8533-8543	5.4	17
193	Functional identification of AtAVT3, a family of vacuolar amino acid transporters, in Arabidopsis. *FEBS Letters*, **2017**, 591, 5-15	3.8	19
192	Autophagy induction under carbon starvation conditions is negatively regulated by carbon catabolite repression. *Journal of Biological Chemistry*, **2017**, 292, 19905-19918	5.4	32
191	The Intrinsically Disordered Protein Atg13 Mediates Supramolecular Assembly of Autophagy Initiation Complexes. *Developmental Cell*, **2016**, 38, 86-99	10.2	108
190	Structural Basis for Receptor-Mediated Selective Autophagy of Aminopeptidase I Aggregates. *Cell Reports*, **2016**, 16, 19-27	10.6	19
189	Localization of Atg3 to autophagy-related membranes and its enhancement by the Atg8-family interacting motif to promote expansion of the membranes. *FEBS Letters*, **2015**, 589, 744-9	3.8	25
188	Bcl-2-like protein 13 is a mammalian Atg32 homologue that mediates mitophagy and mitochondrial fragmentation. *Nature Communications*, **2015**, 6, 7527	17.4	256
187	Atg13 HORMA domain recruits Atg9 vesicles during autophagosome formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 3350-5	11.5	105
186	The yeast chromatin remodeler Rsc1-RSC complex is required for transcriptional activation of autophagy-related genes and inhibition of the TORC1 pathway in response to nitrogen starvation. *Biochemical and Biophysical Research Communications*, **2015**, 464, 1248-1253	3.4	10
185	The Thermotolerant Yeast Kluyveromyces marxianus Is a Useful Organism for Structural and Biochemical Studies of Autophagy. *Journal of Biological Chemistry*, **2015**, 290, 29506-18	5.4	15
184	Bulk RNA degradation by nitrogen starvation-induced autophagy in yeast. *EMBO Journal*, **2015**, 34, 154-68	13	79
183	Phospholipid methylation controls Atg32-mediated mitophagy and Atg8 recycling. *EMBO Journal*, **2015**, 34, 2703-19	13	26
182	Receptor-mediated selective autophagy degrades the endoplasmic reticulum and the nucleus. *Nature*, **2015**, 522, 359-62	50.4	384
181	A novel role for 12/15-lipoxygenase in regulating autophagy. *Redox Biology*, **2015**, 4, 40-7	11.3	31
180	Structural basis of starvation-induced assembly of the autophagy initiation complex. *Nature Structural and Molecular Biology*, **2014**, 21, 513-21	17.6	137
179	Historical landmarks of autophagy research. *Cell Research*, **2014**, 24, 9-23	24.7	593

178	Yeast and mammalian autophagosomes exhibit distinct phosphatidylinositol 3-phosphate asymmetries. *Nature Communications*, **2014**, 5, 3207	17.4	73
177	Hrr25 triggers selective autophagy-related pathways by phosphorylating receptor proteins. *Journal of Cell Biology*, **2014**, 207, 91-105	7.3	84
176	Autophagy: close contact keeps out the uninvited. *Current Biology*, **2014**, 24, R560-R562	6.3	6
175	Different phosphatidylinositol 3-phosphate asymmetries in yeast and mammalian autophagosomes revealed by a new electron microscopy technique. *Autophagy*, **2014**, 10, 933-5	10.2	3
174	Plant autophagy is responsible for peroxisomal transition and plays an important role in the maintenance of peroxisomal quality. *Autophagy*, **2014**, 10, 936-7	10.2	13
173	Organ-specific quality control of plant peroxisomes is mediated by autophagy. *Journal of Cell Science*, **2014**, 127, 1161-8	5.3	80
172	Hrr25 phosphorylates the autophagic receptor Atg34 to promote vacuolar transport of Ɛmannosidase under nitrogen starvation conditions. *FEBS Letters*, **2014**, 588, 3862-9	3.8	28
171	Proteomic profiling of autophagosome cargo in Saccharomyces cerevisiae. *PLoS ONE*, **2014**, 9, e91651	3.7	13
170	Membrane morphology is actively transformed by covalent binding of the protein Atg8 to PE-lipids. *PLoS ONE*, **2014**, 9, e115357	3.7	44
169	The Molecular Mechanisms Underlying Autophagosome Formation in Yeast **2014**, 67-77		1
168	Fine mapping of autophagy-related proteins during autophagosome formation in Saccharomyces cerevisiae. *Journal of Cell Science*, **2013**, 126, 2534-44	5.3	207
167	Structure of the Atg12-Atg5 conjugate reveals a platform for stimulating Atg8-PE conjugation. *EMBO Reports*, **2013**, 14, 206-11	6.5	94
166	ATG4 Proteases in Autophagy **2013**, 2138-2142		
165	Two-colored fluorescence correlation spectroscopy screening for LC3-P62 interaction inhibitors. *Journal of Biomolecular Screening*, **2013**, 18, 1103-9		9
164	Atg38 is required for autophagy-specific phosphatidylinositol 3-kinase complex integrity. *Journal of Cell Biology*, **2013**, 203, 299-313	7.3	77
163	Atg12-Atg5 conjugate enhances E2 activity of Atg3 by rearranging its catalytic site. *Nature Structural and Molecular Biology*, **2013**, 20, 433-9	17.6	102
162	Highly oxidized peroxisomes are selectively degraded via autophagy in Arabidopsis. *Plant Cell*, **2013**, 25, 4967-83	11.6	148
161	Structural insights into Atg10-mediated formation of the autophagy-essential Atg12-Atg5 conjugate. *Structure*, **2012**, 20, 1244-54	5.2	52

160	Noncanonical recognition and UBL loading of distinct E2s by autophagy-essential Atg7. *Nature Structural and Molecular Biology*, **2012**, 19, 1250-6	17.6	42
159	Autophagosome formation can be achieved in the absence of Atg18 by expressing engineered PAS-targeted Atg2. *FEBS Letters*, **2012**, 586, 2473-8	3.8	20
158	Atg4 recycles inappropriately lipidated Atg8 to promote autophagosome biogenesis. *Autophagy*, **2012**, 8, 177-86	10.2	152
157	Autophagy-related protein 32 acts as autophagic degron and directly initiates mitophagy. *Journal of Biological Chemistry*, **2012**, 287, 10631-10638	5.4	104
156	Atg9 vesicles recruit vesicle-tethering proteins Trs85 and Ypt1 to the autophagosome formation site. *Journal of Biological Chemistry*, **2012**, 287, 44261-9	5.4	85
155	Structure of the novel C-terminal domain of vacuolar protein sorting 30/autophagy-related protein 6 and its specific role in autophagy. *Journal of Biological Chemistry*, **2012**, 287, 16256-66	5.4	54
154	Atg9 vesicles are an important membrane source during early steps of autophagosome formation. *Journal of Cell Biology*, **2012**, 198, 219-33	7.3	413
153	The autophagy-related protein kinase Atg1 interacts with the ubiquitin-like protein Atg8 via the Atg8 family interacting motif to facilitate autophagosome formation. *Journal of Biological Chemistry*, **2012**, 287, 28503-7	5.4	75
152	Structure-based analyses reveal distinct binding sites for Atg2 and phosphoinositides in Atg18. *Journal of Biological Chemistry*, **2012**, 287, 31681-90	5.4	93
151	SDS-PAGE techniques to study ubiquitin-like conjugation systems in yeast autophagy. *Methods in Molecular Biology*, **2012**, 832, 519-29	1.4	15
150	Selective autophagy regulates insertional mutagenesis by the Ty1 retrotransposon in Saccharomyces cerevisiae. *Developmental Cell*, **2011**, 21, 358-65	10.2	38
149	Structural basis of Atg8 activation by a homodimeric E1, Atg7. *Molecular Cell*, **2011**, 44, 462-75	17.6	122
148	Starvation induced cell death in autophagy-defective yeast mutants is caused by mitochondria dysfunction. *PLoS ONE*, **2011**, 6, e17412	3.7	117
147	The role of Atg proteins in autophagosome formation. *Annual Review of Cell and Developmental Biology*, **2011**, 27, 107-32	12.6	2096
146	PtdIns 3-Kinase Orchestrates Autophagosome Formation in Yeast. *Journal of Lipids*, **2011**, 2011, 498768	2.7	41
145	Atg14: a key player in orchestrating autophagy. *International Journal of Cell Biology*, **2011**, 2011, 713435	2.6	51
144	Tor directly controls the Atg1 kinase complex to regulate autophagy. *Molecular and Cellular Biology* , **2010**, 30, 1049-58	4.8	351
143	Selective transport of alpha-mannosidase by autophagic pathways: identification of a novel receptor, Atg34p. *Journal of Biological Chemistry*, **2010**, 285, 30019-25	5.4	92

142	Autophagy-related protein 8 (Atg8) family interacting motif in Atg3 mediates the Atg3-Atg8 interaction and is crucial for the cytoplasm-to-vacuole targeting pathway. *Journal of Biological Chemistry*, **2010**, 285, 29599-607	5.4	81
141	Selective transport of alpha-mannosidase by autophagic pathways: structural basis for cargo recognition by Atg19 and Atg34. *Journal of Biological Chemistry*, **2010**, 285, 30026-33	5.4	40
140	Dimeric coiled-coil structure of Saccharomyces cerevisiae Atg16 and its functional significance in autophagy. *Journal of Biological Chemistry*, **2010**, 285, 1508-15	5.4	92
139	The TOR-Mediated Regulation of Autophagy in the Yeast Saccharomyces cerevisiae. *The Enzymes*, **2010**, 143-165	2.3	1
138	The NMR structure of the autophagy-related protein Atg8. *Journal of Biomolecular NMR*, **2010**, 47, 237-41	3	42
137	Atg8-family interacting motif crucial for selective autophagy. *FEBS Letters*, **2010**, 584, 1379-85	3.8	345
136	Current knowledge of the pre-autophagosomal structure (PAS). *FEBS Letters*, **2010**, 584, 1280-6	3.8	126
135	Autophagy plays a role in chloroplast degradation during senescence in individually darkened leaves. *Plant Physiology*, **2009**, 149, 885-93	6.6	241
134	The amino-terminal region of Atg3 is essential for association with phosphatidylethanolamine in Atg8 lipidation. *FEBS Letters*, **2009**, 583, 1078-83	3.8	39
133	OsATG10b, an autophagosome component, is needed for cell survival against oxidative stresses in rice. *Molecules and Cells*, **2009**, 27, 67-74	3.5	76
132	Crystallization of Saccharomyces cerevisiae alpha-mannosidase, a cargo protein of the Cvt pathway. *Acta Crystallographica Section F: Structural Biology Communications*, **2009**, 65, 571-3		4
131	Atg17 recruits Atg9 to organize the pre-autophagosomal structure. *Genes To Cells*, **2009**, 14, 525-38	2.3	119
130	The structure of Atg4B-LC3 complex reveals the mechanism of LC3 processing and delipidation during autophagy. *EMBO Journal*, **2009**, 28, 1341-50	13	294
129	Dynamics and diversity in autophagy mechanisms: lessons from yeast. *Nature Reviews Molecular Cell Biology*, **2009**, 10, 458-67	48.7	1261
128	ATG systems from the protein structural point of view. *Chemical Reviews*, **2009**, 109, 1587-98	68.1	59
127	Mitochondria-anchored receptor Atg32 mediates degradation of mitochondria via selective autophagy. *Developmental Cell*, **2009**, 17, 87-97	10.2	675
126	Lap3 is a selective target of autophagy in yeast, Saccharomyces cerevisiae. *Biochemical and Biophysical Research Communications*, **2009**, 378, 551-7	3.4	29
125	Characterization of the Atg17-Atg29-Atg31 complex specifically required for starvation-induced autophagy in Saccharomyces cerevisiae. *Biochemical and Biophysical Research Communications*, **2009**, 389, 612-5	3.4	87

124	Autophagy negatively regulates cell death by controlling NPR1-dependent salicylic acid signaling during senescence and the innate immune response in Arabidopsis. *Plant Cell*, **2009**, 21, 2914-27	11.6	400
123	A landmark protein essential for mitophagy: Atg32 recruits the autophagic machinery to mitochondria. *Autophagy*, **2009**, 5, 1203-5	10.2	42
122	Transport of phosphatidylinositol 3-phosphate into the vacuole via autophagic membranes in Saccharomyces cerevisiae. *Genes To Cells*, **2008**, 13, 537-47	2.3	115
121	Structural basis of target recognition by Atg8/LC3 during selective autophagy. *Genes To Cells*, **2008**, 13, 1211-8	2.3	294
120	Visualization of Rubisco-Containing Bodies Derived from Chloroplasts in Living Cells of Arabidopsis **2008**, 1207-1210		
119	Mobilization of rubisco and stroma-localized fluorescent proteins of chloroplasts to the vacuole by an ATG gene-dependent autophagic process. *Plant Physiology*, **2008**, 148, 142-55	6.6	254
118	Lipidation of Atg8: how is substrate specificity determined without a canonical E3 enzyme?. *Autophagy*, **2008**, 4, 911-3	10.2	14
117	Dynamics and function of PtdIns(3)P in autophagy. *Autophagy*, **2008**, 4, 952-4	10.2	53
116	The Atg18-Atg2 complex is recruited to autophagic membranes via phosphatidylinositol 3-phosphate and exerts an essential function. *Journal of Biological Chemistry*, **2008**, 283, 23972-80	5.4	226
115	Physiological pH and acidic phospholipids contribute to substrate specificity in lipidation of Atg8. *Journal of Biological Chemistry*, **2008**, 283, 21847-52	5.4	43
114	In vitro reconstitution of plant Atg8 and Atg12 conjugation systems essential for autophagy. *Journal of Biological Chemistry*, **2008**, 283, 1921-8	5.4	93
113	Organization of the pre-autophagosomal structure responsible for autophagosome formation. *Molecular Biology of the Cell*, **2008**, 19, 2039-50	3.5	200
112	Molecular Dissection of Autophagy in the Yeast Saccharomyces cerevisiae **2008**, 31-50		
111	PI3K signaling of autophagy is required for starvation tolerance and virulenceof Cryptococcus neoformans. *Journal of Clinical Investigation*, **2008**, 118, 1186-97	15.9	177
110	Crystallization of the Atg12-Atg5 conjugate bound to Atg16 by the free-interface diffusion method. *Journal of Synchrotron Radiation*, **2008**, 15, 266-8	2.4	7
109	Crystallization of the coiled-coil domain of Atg16 essential for autophagy. *Acta Crystallographica Section F: Structural Biology Communications*, **2008**, 64, 1046-8		2
108	Novel families of vacuolar amino acid transporters. *IUBMB Life*, **2008**, 60, 519-25	4.7	45
107	The yeast Tor signaling pathway is involved in G2/M transition via polo-kinase. *PLoS ONE*, **2008**, 3, e2223	3.7	50

106	The Atg12-Atg5 conjugate has a novel E3-like activity for protein lipidation in autophagy. *Journal of Biological Chemistry*, **2007**, 282, 37298-302	5.4	781
105	Crystallization and preliminary crystallographic analysis of human Atg4B-LC3 complex. *Acta Crystallographica Section F: Structural Biology Communications*, **2007**, 63, 99-102		5
104	Crystallization of Saccharomyces cerevisiae aminopeptidase 1, the major cargo protein of the Cvt pathway. *Acta Crystallographica Section F: Structural Biology Communications*, **2007**, 63, 200-3		6
103	Crystallization and preliminary X-ray analysis of Atg10. *Acta Crystallographica Section F: Structural Biology Communications*, **2007**, 63, 443-5		6
102	Hierarchy of Atg proteins in pre-autophagosomal structure organization. *Genes To Cells*, **2007**, 12, 209-18	2.3	533
101	The crystal structure of Atg3, an autophagy-related ubiquitin carrier protein (E2) enzyme that mediates Atg8 lipidation. *Journal of Biological Chemistry*, **2007**, 282, 8036-43	5.4	95
100	Structure of Atg5.Atg16, a complex essential for autophagy. *Journal of Biological Chemistry*, **2007**, 282, 6763-72	5.4	172
99	An Arabidopsis homolog of yeast ATG6/VPS30 is essential for pollen germination. *Plant Physiology*, **2007**, 143, 1132-9	6.6	129
98	Cis1/Atg31 is required for autophagosome formation in Saccharomyces cerevisiae. *Biochemical and Biophysical Research Communications*, **2007**, 356, 405-10	3.4	83
97	Atg8, a ubiquitin-like protein required for autophagosome formation, mediates membrane tethering and hemifusion. *Cell*, **2007**, 130, 165-78	56.2	869
96	Molecular machinery of autophagosome formation in yeast, Saccharomyces cerevisiae. *FEBS Letters* , **2007**, 581, 2156-61	3.8	312
95	Autophagy in development and stress responses of plants. *Autophagy*, **2006**, 2, 2-11	10.2	268
94	AtATG genes, homologs of yeast autophagy genes, are involved in constitutive autophagy in Arabidopsis root tip cells. *Plant and Cell Physiology*, **2006**, 47, 1641-52	4.9	141
93	Assortment of phosphatidylinositol 3-kinase complexes--Atg14p directs association of complex I to the pre-autophagosomal structure in Saccharomyces cerevisiae. *Molecular Biology of the Cell*, **2006**, 17, 1527-39	3.5	175
92	Organelle degradation during the lens and erythroid differentiation is independent of autophagy. *Biochemical and Biophysical Research Communications*, **2006**, 339, 485-9	3.4	90
91	Crystallization and preliminary X-ray analysis of Atg3. *Acta Crystallographica Section F: Structural Biology Communications*, **2006**, 62, 1016-7		3
90	Expression, purification and crystallization of the Atg5-Atg16 complex essential for autophagy. *Acta Crystallographica Section F: Structural Biology Communications*, **2006**, 62, 1021-3		10
89	Two newly identified sites in the ubiquitin-like protein Atg8 are essential for autophagy. *EMBO Reports*, **2006**, 7, 635-42	6.5	45

88	Protein turnover. *IUBMB Life*, **2006**, 58, 363-9	4.7	18
87	Characterization of a novel autophagy-specific gene, ATG29. *Biochemical and Biophysical Research Communications*, **2005**, 338, 1884-9	3.4	85
86	A family of basic amino acid transporters of the vacuolar membrane from Saccharomyces cerevisiae. *Journal of Biological Chemistry*, **2005**, 280, 4851-7	5.4	75
85	Starvation triggers the delivery of the endoplasmic reticulum to the vacuole via autophagy in yeast. *Traffic*, **2005**, 6, 56-65	5.7	135
84	Structure-function relationship of Atg12, a ubiquitin-like modifier essential for autophagy. *Autophagy*, **2005**, 1, 110-8	10.2	61
83	Structural basis for the specificity and catalysis of human Atg4B responsible for mammalian autophagy. *Journal of Biological Chemistry*, **2005**, 280, 40058-65	5.4	100
82	Tor2 directly phosphorylates the AGC kinase Ypk2 to regulate actin polarization. *Molecular and Cellular Biology*, **2005**, 25, 7239-48	4.8	171
81	Autophagy is required for maintenance of amino acid levels and protein synthesis under nitrogen starvation. *Journal of Biological Chemistry*, **2005**, 280, 31582-6	5.4	320
80	Atg17 functions in cooperation with Atg1 and Atg13 in yeast autophagy. *Molecular Biology of the Cell*, **2005**, 16, 2544-53	3.5	264
79	Impairment of starvation-induced and constitutive autophagy in Atg7-deficient mice. *Journal of Cell Biology*, **2005**, 169, 425-34	7.3	1881
78	A sorting nexin PpAtg24 regulates vacuolar membrane dynamics during pexophagy via binding to phosphatidylinositol-3-phosphate. *Molecular Biology of the Cell*, **2005**, 16, 446-57	3.5	65
77	The crystal structure of plant ATG12 and its biological implication in autophagy. *Autophagy*, **2005**, 1, 119-26	10.2	94
76	apg15-1, a UGA mutant allele in the Saccharomyces cerevisiae APG16 gene, and its suppression by a cytoplasmic factor. *Bioscience, Biotechnology and Biochemistry*, **2004**, 68, 1541-8	2.1	1
75	Processing of ATG8s, ubiquitin-like proteins, and their deconjugation by ATG4s are essential for plant autophagy. *Plant Cell*, **2004**, 16, 2967-83	11.6	435
74	Ald6p is a preferred target for autophagy in yeast, Saccharomyces cerevisiae. *Journal of Biological Chemistry*, **2004**, 279, 16071-6	5.4	80
73	In vivo and in vitro reconstitution of Atg8 conjugation essential for autophagy. *Journal of Biological Chemistry*, **2004**, 279, 40584-92	5.4	156
72	Modification of a ubiquitin-like protein Paz2 conducted micropexophagy through formation of a novel membrane structure. *Molecular Biology of the Cell*, **2004**, 15, 58-70	3.5	99
71	The crystal structure of microtubule-associated protein light chain 3, a mammalian homologue of Saccharomyces cerevisiae Atg8. *Genes To Cells*, **2004**, 9, 611-8	2.3	142

70	The role of autophagy during the early neonatal starvation period. *Nature*, **2004**, 432, 1032-6	50.4	2366
69	Interrelationships among Atg proteins during autophagy in Saccharomyces cerevisiae. *Yeast*, **2004**, 21, 1057-65	3.4	34
68	In vivo analysis of autophagy in response to nutrient starvation using transgenic mice expressing a fluorescent autophagosome marker. *Molecular Biology of the Cell*, **2004**, 15, 1101-11	3.5	1885
67	Transcriptomic and proteomic analysis of a 14-3-3 gene-deficient yeast. *Biochemistry*, **2004**, 43, 6149-58	3.2	35
66	LC3, GABARAP and GATE16 localize to autophagosomal membrane depending on form-II formation. *Journal of Cell Science*, **2004**, 117, 2805-12	5.3	1104
65	Lytic Function of Vacuole, Molecular Dissection of Autophagy in Yeast **2004**, 443-458		
64	Two ubiquitin-like conjugation systems essential for autophagy. *Seminars in Cell and Developmental Biology*, **2004**, 15, 231-6	7.5	248
63	The early secretory pathway contributes to autophagy in yeast. *Cell Structure and Function*, **2003**, 28, 49-54	2.2	81
62	Promotion of tumorigenesis by heterozygous disruption of the beclin 1 autophagy gene. *Journal of Clinical Investigation*, **2003**, 112, 1809-20	15.9	1683
61	Crystallization and preliminary X-ray analysis of LC3-I. *Acta Crystallographica Section D: Biological Crystallography*, **2003**, 59, 1464-5		9
60	Role of the Apg12 conjugation system in mammalian autophagy. *International Journal of Biochemistry and Cell Biology*, **2003**, 35, 553-61	5.6	96
59	A unified nomenclature for yeast autophagy-related genes. *Developmental Cell*, **2003**, 5, 539-45	10.2	1018
58	Mouse Apg16L, a novel WD-repeat protein, targets to the autophagic isolation membrane with the Apg12-Apg5 conjugate. *Journal of Cell Science*, **2003**, 116, 1679-88	5.3	568
57	SKD1 AAA ATPase-dependent endosomal transport is involved in autolysosome formation. *Cell Structure and Function*, **2002**, 27, 29-37	2.2	122
56	Autophagosome formation in mammalian cells. *Cell Structure and Function*, **2002**, 27, 421-9	2.2	739
55	Yeast autophagosomes: de novo formation of a membrane structure. *Trends in Cell Biology*, **2002**, 12, 231-5	18.3	171
54	Leaf senescence and starvation-induced chlorosis are accelerated by the disruption of an Arabidopsis autophagy gene. *Plant Physiology*, **2002**, 129, 1181-93	6.6	458
53	Formation of the approximately 350-kDa Apg12-Apg5.Apg16 multimeric complex, mediated by Apg16 oligomerization, is essential for autophagy in yeast. *Journal of Biological Chemistry*, **2002**, 277, 18619-25	5.4	315

52	The first molecular evidence that autophagy relates rimmed vacuole formation in chloroquine myopathy. *Journal of Biochemistry*, **2002**, 131, 647-51	3.1	48
51	Mouse Apg10 as an Apg12-conjugating enzyme: analysis by the conjugation-mediated yeast two-hybrid method. *FEBS Letters*, **2002**, 532, 450-4	3.8	42
50	Studies of cargo delivery to the vacuole mediated by autophagosomes in Saccharomyces cerevisiae. *Developmental Cell*, **2002**, 3, 815-24	10.2	88
49	Beclin-phosphatidylinositol 3-kinase complex functions at the trans-Golgi network. *EMBO Reports*, **2001**, 2, 330-5	6.5	716
48	Molecular dissection of autophagy: two ubiquitin-like systems. *Nature Reviews Molecular Cell Biology*, **2001**, 2, 211-6	48.7	1030
47	Autophagosome requires specific early Sec proteins for its formation and NSF/SNARE for vacuolar fusion. *Molecular Biology of the Cell*, **2001**, 12, 3690-702	3.5	296
46	The C-terminal region of an Apg7p/Cvt2p is required for homodimerization and is essential for its E1 activity and E1-E2 complex formation. *Journal of Biological Chemistry*, **2001**, 276, 9846-54	5.4	70
45	Dissection of autophagosome formation using Apg5-deficient mouse embryonic stem cells. *Journal of Cell Biology*, **2001**, 152, 657-68	7.3	1165
44	Apg2p functions in autophagosome formation on the perivacuolar structure. *Journal of Biological Chemistry*, **2001**, 276, 30452-60	5.4	95
43	Cvt9/Gsa9 functions in sequestering selective cytosolic cargo destined for the vacuole. *Journal of Cell Biology*, **2001**, 153, 381-96	7.3	223
42	Two distinct Vps34 phosphatidylinositol 3-kinase complexes function in autophagy and carboxypeptidase Y sorting in Saccharomyces cerevisiae. *Journal of Cell Biology*, **2001**, 152, 519-30	7.3	811
41	A ubiquitin-like system mediates protein lipidation. *Nature*, **2000**, 408, 488-92	50.4	1494
40	A protein conjugation system in yeast with homology to biosynthetic enzyme reaction of prokaryotes. *Journal of Biological Chemistry*, **2000**, 275, 7462-5	5.4	117
39	Apg5p functions in the sequestration step in the cytoplasm-to-vacuole targeting and macroautophagy pathways. *Molecular Biology of the Cell*, **2000**, 11, 969-82	3.5	80
38	The mouse SKD1, a homologue of yeast Vps4p, is required for normal endosomal trafficking and morphology in mammalian cells. *Molecular Biology of the Cell*, **2000**, 11, 747-63	3.5	177
37	Apg13p and Vac8p are part of a complex of phosphoproteins that are required for cytoplasm to vacuole targeting. *Journal of Biological Chemistry*, **2000**, 275, 25840-9	5.4	179
36	Tor-mediated induction of autophagy via an Apg1 protein kinase complex. *Journal of Cell Biology*, **2000**, 150, 1507-13	7.3	909
35	Geranylgeranylated SNAREs are dominant inhibitors of membrane fusion. *Journal of Cell Biology*, **2000**, 151, 453-66	7.3	104

34	Apg9p/Cvt7p is an integral membrane protein required for transport vesicle formation in the Cvt and autophagy pathways. *Journal of Cell Biology*, **2000**, 148, 465-80	7.3	313
33	The reversible modification regulates the membrane-binding state of Apg8/Aut7 essential for autophagy and the cytoplasm to vacuole targeting pathway. *Journal of Cell Biology*, **2000**, 151, 263-76	7.3	747
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