

Yoshinori Ohsumi

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213
papers

48,547
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96
h-index

220
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225
ext. papers

53,651
ext. citations

8.6
avg, IF

7.6
L-index

#	Paper	IF	Citations
213	The role of autophagy during the early neonatal starvation period. <i>Nature</i> , 2004 , 432, 1032-6	50.4	2366
212	The role of Atg proteins in autophagosome formation. <i>Annual Review of Cell and Developmental Biology</i> , 2011 , 27, 107-32	12.6	2096
211	In vivo analysis of autophagy in response to nutrient starvation using transgenic mice expressing a fluorescent autophagosome marker. <i>Molecular Biology of the Cell</i> , 2004 , 15, 1101-11	3.5	1885
210	Impairment of starvation-induced and constitutive autophagy in Atg7-deficient mice. <i>Journal of Cell Biology</i> , 2005 , 169, 425-34	7.3	1881
209	Promotion of tumorigenesis by heterozygous disruption of the beclin 1 autophagy gene. <i>Journal of Clinical Investigation</i> , 2003 , 112, 1809-20	15.9	1683
208	A ubiquitin-like system mediates protein lipidation. <i>Nature</i> , 2000 , 408, 488-92	50.4	1494
207	A protein conjugation system essential for autophagy. <i>Nature</i> , 1998 , 395, 395-8	50.4	1265
206	Dynamics and diversity in autophagy mechanisms: lessons from yeast. <i>Nature Reviews Molecular Cell Biology</i> , 2009 , 10, 458-67	48.7	1261
205	Isolation and characterization of autophagy-defective mutants of <i>Saccharomyces cerevisiae</i> . <i>FEBS Letters</i> , 1993 , 333, 169-74	3.8	1255
204	Dissection of autophagosome formation using Apg5-deficient mouse embryonic stem cells. <i>Journal of Cell Biology</i> , 2001 , 152, 657-68	7.3	1165
203	LC3, GABARAP and GATE16 localize to autophagosomal membrane depending on form-II formation. <i>Journal of Cell Science</i> , 2004 , 117, 2805-12	5.3	1104
202	Molecular dissection of autophagy: two ubiquitin-like systems. <i>Nature Reviews Molecular Cell Biology</i> , 2001 , 2, 211-6	48.7	1030
201	A unified nomenclature for yeast autophagy-related genes. <i>Developmental Cell</i> , 2003 , 5, 539-45	10.2	1018
200	Tor, a phosphatidylinositol kinase homologue, controls autophagy in yeast. <i>Journal of Biological Chemistry</i> , 1998 , 273, 3963-6	5.4	957
199	Tor-mediated induction of autophagy via an Apg1 protein kinase complex. <i>Journal of Cell Biology</i> , 2000 , 150, 1507-13	7.3	909
198	Atg8, a ubiquitin-like protein required for autophagosome formation, mediates membrane tethering and hemifusion. <i>Cell</i> , 2007 , 130, 165-78	56.2	869
197	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

196	The Atg12-Atg5 conjugate has a novel E3-like activity for protein lipidation in autophagy. <i>Journal of Biological Chemistry</i> , 2007 , 282, 37298-302	5.4	781
195	The reversible modification regulates the membrane-binding state of Apg8/Aut7 essential for autophagy and the cytoplasm to vacuole targeting pathway. <i>Journal of Cell Biology</i> , 2000 , 151, 263-76	7.3	747
194	Autophagosome formation in mammalian cells. <i>Cell Structure and Function</i> , 2002 , 27, 421-9	2.2	739
193	Formation process of autophagosome is traced with Apg8/Aut7p in yeast. <i>Journal of Cell Biology</i> , 1999 , 147, 435-46	7.3	722
192	Beclin-phosphatidylinositol 3-kinase complex functions at the trans-Golgi network. <i>EMBO Reports</i> , 2001 , 2, 330-5	6.5	716
191	Mitochondria-anchored receptor Atg32 mediates degradation of mitochondria via selective autophagy. <i>Developmental Cell</i> , 2009 , 17, 87-97	10.2	675
190	Historical landmarks of autophagy research. <i>Cell Research</i> , 2014 , 24, 9-23	24.7	593
189	Mouse Apg16L, a novel WD-repeat protein, targets to the autophagic isolation membrane with the Apg12-Apg5 conjugate. <i>Journal of Cell Science</i> , 2003 , 116, 1679-88	5.3	568
188	Hierarchy of Atg proteins in pre-autophagosomal structure organization. <i>Genes To Cells</i> , 2007 , 12, 209-18	3	533
187	Leaf senescence and starvation-induced chlorosis are accelerated by the disruption of an Arabidopsis autophagy gene. <i>Plant Physiology</i> , 2002 , 129, 1181-93	6.6	458
186	Processing of ATG8s, ubiquitin-like proteins, and their deconjugation by ATG4s are essential for plant autophagy. <i>Plant Cell</i> , 2004 , 16, 2967-83	11.6	435
185	Atg9 vesicles are an important membrane source during early steps of autophagosome formation. <i>Journal of Cell Biology</i> , 2012 , 198, 219-33	7.3	413
184	Vacuolar import of proteins and organelles from the cytoplasm. <i>Annual Review of Cell and Developmental Biology</i> , 1999 , 15, 1-32	12.6	403
183	Autophagy negatively regulates cell death by controlling NPR1-dependent salicylic acid signaling during senescence and the innate immune response in Arabidopsis. <i>Plant Cell</i> , 2009 , 21, 2914-27	11.6	400
182	Apg1p, a novel protein kinase required for the autophagic process in <i>Saccharomyces cerevisiae</i> . <i>Gene</i> , 1997 , 192, 245-50	3.8	388
181	Receptor-mediated selective autophagy degrades the endoplasmic reticulum and the nucleus. <i>Nature</i> , 2015 , 522, 359-62	50.4	384
180	A new protein conjugation system in human. The counterpart of the yeast Apg12p conjugation system essential for autophagy. <i>Journal of Biological Chemistry</i> , 1998 , 273, 33889-92	5.4	378
179	Tor directly controls the Atg1 kinase complex to regulate autophagy. <i>Molecular and Cellular Biology</i> , 2010 , 30, 1049-58	4.8	351

178	Atg8-family interacting motif crucial for selective autophagy. <i>FEBS Letters</i> , 2010 , 584, 1379-85	3.8	345
177	Apg16p is required for the function of the Apg12p-Apg5p conjugate in the yeast autophagy pathway. <i>EMBO Journal</i> , 1999 , 18, 3888-96	13	339
176	Apg7p/Cvt2p: A novel protein-activating enzyme essential for autophagy. <i>Molecular Biology of the Cell</i> , 1999 , 10, 1367-79	3.5	323
175	Autophagy is required for maintenance of amino acid levels and protein synthesis under nitrogen starvation. <i>Journal of Biological Chemistry</i> , 2005 , 280, 31582-6	5.4	320
174	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
173	Apg9p/Cvt7p is an integral membrane protein required for transport vesicle formation in the Cvt and autophagy pathways. <i>Journal of Cell Biology</i> , 2000 , 148, 465-80	7.3	313
172	Molecular machinery of autophagosome formation in yeast, <i>Saccharomyces cerevisiae</i> . <i>FEBS Letters</i> , 2007 , 581, 2156-61	3.8	312
171	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
170	The structure of Atg4B-LC3 complex reveals the mechanism of LC3 processing and delipidation during autophagy. <i>EMBO Journal</i> , 2009 , 28, 1341-50	13	294
169	Structural basis of target recognition by Atg8/LC3 during selective autophagy. <i>Genes To Cells</i> , 2008 , 13, 1211-8	2.3	294
168	Two distinct pathways for targeting proteins from the cytoplasm to the vacuole/lysosome. <i>Journal of Cell Biology</i> , 1997 , 139, 1687-95	7.3	278
167	Autophagy in development and stress responses of plants. <i>Autophagy</i> , 2006 , 2, 2-11	10.2	268
166	Atg17 functions in cooperation with Atg1 and Atg13 in yeast autophagy. <i>Molecular Biology of the Cell</i> , 2005 , 16, 2544-53	3.5	264
165	Bcl-2-like protein 13 is a mammalian Atg32 homologue that mediates mitophagy and mitochondrial fragmentation. <i>Nature Communications</i> , 2015 , 6, 7527	17.4	256
164	Mobilization of rubisco and stroma-localized fluorescent proteins of chloroplasts to the vacuole by an ATG gene-dependent autophagic process. <i>Plant Physiology</i> , 2008 , 148, 142-55	6.6	254
163	Two ubiquitin-like conjugation systems essential for autophagy. <i>Seminars in Cell and Developmental Biology</i> , 2004 , 15, 231-6	7.5	248
162	Autophagy plays a role in chloroplast degradation during senescence in individually darkened leaves. <i>Plant Physiology</i> , 2009 , 149, 885-93	6.6	241
161	The Atg18-Atg2 complex is recruited to autophagic membranes via phosphatidylinositol 3-phosphate and exerts an essential function. <i>Journal of Biological Chemistry</i> , 2008 , 283, 23972-80	5.4	226

160	Cvt9/Gsa9 functions in sequestering selective cytosolic cargo destined for the vacuole. <i>Journal of Cell Biology</i> , 2001 , 153, 381-96	7.3	223
159	Fine mapping of autophagy-related proteins during autophagosome formation in <i>Saccharomyces cerevisiae</i> . <i>Journal of Cell Science</i> , 2013 , 126, 2534-44	5.3	207
158	Apg14p and Apg6/Vps30p form a protein complex essential for autophagy in the yeast, <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 1998 , 273, 22284-91	5.4	205
157	Organization of the pre-autophagosomal structure responsible for autophagosome formation. <i>Molecular Biology of the Cell</i> , 2008 , 19, 2039-50	3.5	200
156	Apg13p and Vac8p are part of a complex of phosphoproteins that are required for cytoplasm to vacuole targeting. <i>Journal of Biological Chemistry</i> , 2000 , 275, 25840-9	5.4	179
155	Atg2 mediates direct lipid transfer between membranes for autophagosome formation. <i>Nature Structural and Molecular Biology</i> , 2019 , 26, 281-288	17.6	178
154	PI3K signaling of autophagy is required for starvation tolerance and virulence of <i>Cryptococcus neoformans</i> . <i>Journal of Clinical Investigation</i> , 2008 , 118, 1186-97	15.9	177
153	The mouse SKD1, a homologue of yeast Vps4p, is required for normal endosomal trafficking and morphology in mammalian cells. <i>Molecular Biology of the Cell</i> , 2000 , 11, 747-63	3.5	177
152	Assortment of phosphatidylinositol 3-kinase complexes--Atg14p directs association of complex I to the pre-autophagosomal structure in <i>Saccharomyces cerevisiae</i> . <i>Molecular Biology of the Cell</i> , 2006 , 17, 1527-39	3.5	175
151	Structure of Atg5.Atg16, a complex essential for autophagy. <i>Journal of Biological Chemistry</i> , 2007 , 282, 6763-72	5.4	172
150	Yeast autophagosomes: de novo formation of a membrane structure. <i>Trends in Cell Biology</i> , 2002 , 12, 231-5	18.3	171
149	Tor2 directly phosphorylates the AGC kinase Ypk2 to regulate actin polarization. <i>Molecular and Cellular Biology</i> , 2005 , 25, 7239-48	4.8	171
148	In vivo and in vitro reconstitution of Atg8 conjugation essential for autophagy. <i>Journal of Biological Chemistry</i> , 2004 , 279, 40584-92	5.4	156
147	Atg4 recycles inappropriately lipidated Atg8 to promote autophagosome biogenesis. <i>Autophagy</i> , 2012 , 8, 177-86	10.2	152
146	Aminopeptidase I is targeted to the vacuole by a nonclassical vesicular mechanism. <i>Journal of Cell Biology</i> , 1997 , 138, 37-44	7.3	150
145	Highly oxidized peroxisomes are selectively degraded via autophagy in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013 , 25, 4967-83	11.6	148
144	Vam2/Vps41p and Vam6/Vps39p are components of a protein complex on the vacuolar membranes and involved in the vacuolar assembly in the yeast <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 1997 , 272, 11344-9	5.4	144
143	The crystal structure of microtubule-associated protein light chain 3, a mammalian homologue of <i>Saccharomyces cerevisiae</i> Atg8. <i>Genes To Cells</i> , 2004 , 9, 611-8	2.3	142

142	AtATG genes, homologs of yeast autophagy genes, are involved in constitutive autophagy in Arabidopsis root tip cells. <i>Plant and Cell Physiology</i> , 2006 , 47, 1641-52	4.9	141
141	Phase separation organizes the site of autophagosome formation. <i>Nature</i> , 2020 , 578, 301-305	50.4	138
140	Structural basis of starvation-induced assembly of the autophagy initiation complex. <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 513-21	17.6	137
139	Analyses of APG13 gene involved in autophagy in yeast, <i>Saccharomyces cerevisiae</i> . <i>Gene</i> , 1997 , 192, 207-318	3.8	136
138	Starvation triggers the delivery of the endoplasmic reticulum to the vacuole via autophagy in yeast. <i>Traffic</i> , 2005 , 6, 56-65	5.7	135
137	An Arabidopsis homolog of yeast ATG6/VPS30 is essential for pollen germination. <i>Plant Physiology</i> , 2007 , 143, 1132-9	6.6	129
136	Current knowledge of the pre-autophagosomal structure (PAS). <i>FEBS Letters</i> , 2010 , 584, 1280-6	3.8	126
135	Analysis of the membrane structures involved in autophagy in yeast by freeze-replica method. <i>Cell Structure and Function</i> , 1995 , 20, 465-71	2.2	125
134	The Atg2-Atg18 complex tethers pre-autophagosomal membranes to the endoplasmic reticulum for autophagosome formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 10363-10368	11.5	125
133	Structural basis of Atg8 activation by a homodimeric E1, Atg7. <i>Molecular Cell</i> , 2011 , 44, 462-75	17.6	122
132	SKD1 AAA ATPase-dependent endosomal transport is involved in autolysosome formation. <i>Cell Structure and Function</i> , 2002 , 27, 29-37	2.2	122
131	Atg17 recruits Atg9 to organize the pre-autophagosomal structure. <i>Genes To Cells</i> , 2009 , 14, 525-38	2.3	119
130	Starvation induced cell death in autophagy-defective yeast mutants is caused by mitochondria dysfunction. <i>PLoS ONE</i> , 2011 , 6, e17412	3.7	117
129	A protein conjugation system in yeast with homology to biosynthetic enzyme reaction of prokaryotes. <i>Journal of Biological Chemistry</i> , 2000 , 275, 7462-5	5.4	117
128	Transport of phosphatidylinositol 3-phosphate into the vacuole via autophagic membranes in <i>Saccharomyces cerevisiae</i> . <i>Genes To Cells</i> , 2008 , 13, 537-47	2.3	115
127	The Intrinsically Disordered Protein Atg13 Mediates Supramolecular Assembly of Autophagy Initiation Complexes. <i>Developmental Cell</i> , 2016 , 38, 86-99	10.2	108
126	Atg13 HORMA domain recruits Atg9 vesicles during autophagosome formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3350-5	11.5	105
125	Autophagy-related protein 32 acts as autophagic degron and directly initiates mitophagy. <i>Journal of Biological Chemistry</i> , 2012 , 287, 10631-10638	5.4	104

124	Geranylgeranylated SNAREs are dominant inhibitors of membrane fusion. <i>Journal of Cell Biology</i> , 2000 , 151, 453-66	7.3	104
123	Atg12-Atg5 conjugate enhances E2 activity of Atg3 by rearranging its catalytic site. <i>Nature Structural and Molecular Biology</i> , 2013 , 20, 433-9	17.6	102
122	Structural basis for the specificity and catalysis of human Atg4B responsible for mammalian autophagy. <i>Journal of Biological Chemistry</i> , 2005 , 280, 40058-65	5.4	100
121	The AtVAM3 encodes a syntaxin-related molecule implicated in the vacuolar assembly in <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , 1997 , 272, 24530-5	5.4	99
120	Modification of a ubiquitin-like protein Paz2 conducted micropexophagy through formation of a novel membrane structure. <i>Molecular Biology of the Cell</i> , 2004 , 15, 58-70	3.5	99
119	Atg9 is a lipid scramblase that mediates autophagosomal membrane expansion. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 1185-1193	17.6	97
118	Role of the Apg12 conjugation system in mammalian autophagy. <i>International Journal of Biochemistry and Cell Biology</i> , 2003 , 35, 553-61	5.6	96
117	The crystal structure of Atg3, an autophagy-related ubiquitin carrier protein (E2) enzyme that mediates Atg8 lipidation. <i>Journal of Biological Chemistry</i> , 2007 , 282, 8036-43	5.4	95
116	Apg2p functions in autophagosome formation on the perivacuolar structure. <i>Journal of Biological Chemistry</i> , 2001 , 276, 30452-60	5.4	95
115	Structure of the Atg12-Atg5 conjugate reveals a platform for stimulating Atg8-PE conjugation. <i>EMBO Reports</i> , 2013 , 14, 206-11	6.5	94
114	The crystal structure of plant ATG12 and its biological implication in autophagy. <i>Autophagy</i> , 2005 , 1, 119-126	12.2	94
113	Structure-based analyses reveal distinct binding sites for Atg2 and phosphoinositides in Atg18. <i>Journal of Biological Chemistry</i> , 2012 , 287, 31681-90	5.4	93
112	In vitro reconstitution of plant Atg8 and Atg12 conjugation systems essential for autophagy. <i>Journal of Biological Chemistry</i> , 2008 , 283, 1921-8	5.4	93
111	Selective transport of alpha-mannosidase by autophagic pathways: identification of a novel receptor, Atg34p. <i>Journal of Biological Chemistry</i> , 2010 , 285, 30019-25	5.4	92
110	Dimeric coiled-coil structure of <i>Saccharomyces cerevisiae</i> Atg16 and its functional significance in autophagy. <i>Journal of Biological Chemistry</i> , 2010 , 285, 1508-15	5.4	92
109	Structural and functional analyses of APG5, a gene involved in autophagy in yeast. <i>Gene</i> , 1996 , 178, 139-43	3.3	92
108	Organelle degradation during the lens and erythroid differentiation is independent of autophagy. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 339, 485-9	3.4	90
107	Studies of cargo delivery to the vacuole mediated by autophagosomes in <i>Saccharomyces cerevisiae</i> . <i>Developmental Cell</i> , 2002 , 3, 815-24	10.2	88

106	Characterization of the Atg17-Atg29-Atg31 complex specifically required for starvation-induced autophagy in <i>Saccharomyces cerevisiae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2009 , 389, 612-5	3.4	87
105	Nucleotide sequence of the CLS4 (CDC24) gene of <i>Saccharomyces cerevisiae</i> . <i>Gene</i> , 1987 , 54, 125-32	3.8	87
104	Atg9 vesicles recruit vesicle-tethering proteins Trs85 and Ypt1 to the autophagosome formation site. <i>Journal of Biological Chemistry</i> , 2012 , 287, 44261-9	5.4	85
103	Characterization of a novel autophagy-specific gene, ATG29. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 338, 1884-9	3.4	85
102	Hrr25 triggers selective autophagy-related pathways by phosphorylating receptor proteins. <i>Journal of Cell Biology</i> , 2014 , 207, 91-105	7.3	84
101	Cis1/Atg31 is required for autophagosome formation in <i>Saccharomyces cerevisiae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2007 , 356, 405-10	3.4	83
100	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. <i>Journal of Biological Chemistry</i> , 2010 , 285, 29599-607	5.4	81
99	The early secretory pathway contributes to autophagy in yeast. <i>Cell Structure and Function</i> , 2003 , 28, 49-54	2.2	81
98	Organ-specific quality control of plant peroxisomes is mediated by autophagy. <i>Journal of Cell Science</i> , 2014 , 127, 1161-8	5.3	80
97	Ald6p is a preferred target for autophagy in yeast, <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2004 , 279, 16071-6	5.4	80
96	Apg5p functions in the sequestration step in the cytoplasm-to-vacuole targeting and macroautophagy pathways. <i>Molecular Biology of the Cell</i> , 2000 , 11, 969-82	3.5	80
95	Bulk RNA degradation by nitrogen starvation-induced autophagy in yeast. <i>EMBO Journal</i> , 2015 , 34, 154-68		79
94	Atg38 is required for autophagy-specific phosphatidylinositol 3-kinase complex integrity. <i>Journal of Cell Biology</i> , 2013 , 203, 299-313	7.3	77
93	OsATG10b, an autophagosome component, is needed for cell survival against oxidative stresses in rice. <i>Molecules and Cells</i> , 2009 , 27, 67-74	3.5	76
92	The autophagy-related protein kinase Atg1 interacts with the ubiquitin-like protein Atg8 via the Atg8 family interacting motif to facilitate autophagosome formation. <i>Journal of Biological Chemistry</i> , 2012 , 287, 28503-7	5.4	75
91	A family of basic amino acid transporters of the vacuolar membrane from <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2005 , 280, 4851-7	5.4	75
90	Yeast and mammalian autophagosomes exhibit distinct phosphatidylinositol 3-phosphate asymmetries. <i>Nature Communications</i> , 2014 , 5, 3207	17.4	73
89	The C-terminal region of an Apg7p/Cvt2p is required for homodimerization and is essential for its E1 activity and E1-E2 complex formation. <i>Journal of Biological Chemistry</i> , 2001 , 276, 9846-54	5.4	70

88	Genetic study of the role of calcium ions in the cell division cycle of <i>Saccharomyces cerevisiae</i> : a calcium-dependent mutant and its trifluoperazine-dependent pseudorevertants. <i>Molecular Genetics and Genomics</i> , 1984 , 193, 389-94		66
87	A sorting nexin PpAtg24 regulates vacuolar membrane dynamics during pexophagy via binding to phosphatidylinositol-3-phosphate. <i>Molecular Biology of the Cell</i> , 2005 , 16, 446-57	3.5	65
86	Liquidity Is a Critical Determinant for Selective Autophagy of Protein Condensates. <i>Molecular Cell</i> , 2020 , 77, 1163-1175.e9	17.6	62
85	Structure-function relationship of Atg12, a ubiquitin-like modifier essential for autophagy. <i>Autophagy</i> , 2005 , 1, 110-8	10.2	61
84	ATG systems from the protein structural point of view. <i>Chemical Reviews</i> , 2009 , 109, 1587-98	68.1	59
83	Mutational analysis of Csc1/Vps4p: involvement of endosome in regulation of autophagy in yeast. <i>Cell Structure and Function</i> , 1997 , 22, 501-9	2.2	59
82	Structure of the novel C-terminal domain of vacuolar protein sorting 30/autophagy-related protein 6 and its specific role in autophagy. <i>Journal of Biological Chemistry</i> , 2012 , 287, 16256-66	5.4	54
81	Dynamics and function of PtdIns(3)P in autophagy. <i>Autophagy</i> , 2008 , 4, 952-4	10.2	53
80	Structural insights into Atg10-mediated formation of the autophagy-essential Atg12-Atg5 conjugate. <i>Structure</i> , 2012 , 20, 1244-54	5.2	52
79	Atg14: a key player in orchestrating autophagy. <i>International Journal of Cell Biology</i> , 2011 , 2011, 713435	2.6	51
78	The yeast Tor signaling pathway is involved in G2/M transition via polo-kinase. <i>PLoS ONE</i> , 2008 , 3, e2223	3.7	50
77	Unveiling the Molecular Mechanisms of Plant Autophagy-From Autophagosomes to Vacuoles in Plants. <i>Plant and Cell Physiology</i> , 2018 , 59, 1337-1344	4.9	49
76	The first molecular evidence that autophagy relates rimmed vacuole formation in chloroquine myopathy. <i>Journal of Biochemistry</i> , 2002 , 131, 647-51	3.1	48
75	Novel families of vacuolar amino acid transporters. <i>IUBMB Life</i> , 2008 , 60, 519-25	4.7	45
74	Two newly identified sites in the ubiquitin-like protein Atg8 are essential for autophagy. <i>EMBO Reports</i> , 2006 , 7, 635-42	6.5	45
73	Membrane morphology is actively transformed by covalent binding of the protein Atg8 to PE-lipids. <i>PLoS ONE</i> , 2014 , 9, e115357	3.7	44
72	Physiological pH and acidic phospholipids contribute to substrate specificity in lipidation of Atg8. <i>Journal of Biological Chemistry</i> , 2008 , 283, 21847-52	5.4	43
71	Noncanonical recognition and UBL loading of distinct E2s by autophagy-essential Atg7. <i>Nature Structural and Molecular Biology</i> , 2012 , 19, 1250-6	17.6	42

70	A landmark protein essential for mitophagy: Atg32 recruits the autophagic machinery to mitochondria. <i>Autophagy</i> , 2009 , 5, 1203-5	10.2	42
69	The NMR structure of the autophagy-related protein Atg8. <i>Journal of Biomolecular NMR</i> , 2010 , 47, 237-44		42
68	Mouse Apg10 as an Apg12-conjugating enzyme: analysis by the conjugation-mediated yeast two-hybrid method. <i>FEBS Letters</i> , 2002 , 532, 450-4	3.8	42
67	PtdIns 3-Kinase Orchestrates Autophagosome Formation in Yeast. <i>Journal of Lipids</i> , 2011 , 2011, 498768	2.7	41
66	Zinc starvation induces autophagy in yeast. <i>Journal of Biological Chemistry</i> , 2017 , 292, 8520-8530	5.4	40
65	Selective transport of alpha-mannosidase by autophagic pathways: structural basis for cargo recognition by Atg19 and Atg34. <i>Journal of Biological Chemistry</i> , 2010 , 285, 30026-33	5.4	40
64	The amino-terminal region of Atg3 is essential for association with phosphatidylethanolamine in Atg8 lipidation. <i>FEBS Letters</i> , 2009 , 583, 1078-83	3.8	39
63	Selective autophagy regulates insertional mutagenesis by the Ty1 retrotransposon in <i>Saccharomyces cerevisiae</i> . <i>Developmental Cell</i> , 2011 , 21, 358-65	10.2	38
62	Dimeric structure of H(+)-translocating pyrophosphatase from pumpkin vacuolar membranes. <i>FEBS Letters</i> , 1991 , 290, 177-80	3.8	37
61	Transcriptomic and proteomic analysis of a 14-3-3 gene-deficient yeast. <i>Biochemistry</i> , 2004 , 43, 6149-58	3.2	35
60	Two distinct mechanisms target the autophagy-related E3 complex to the pre-autophagosomal structure. <i>ELife</i> , 2019 , 8,	8.9	35
59	Interrelationships among Atg proteins during autophagy in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2004 , 21, 1057-65	3.4	34
58	Autophagy induction under carbon starvation conditions is negatively regulated by carbon catabolite repression. <i>Journal of Biological Chemistry</i> , 2017 , 292, 19905-19918	5.4	32
57	A novel role for 12/15-lipoxygenase in regulating autophagy. <i>Redox Biology</i> , 2015 , 4, 40-7	11.3	31
56	Lap3 is a selective target of autophagy in yeast, <i>Saccharomyces cerevisiae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2009 , 378, 551-7	3.4	29
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