

Mizushima Noboru

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5391021/mizushima-noboru-publications-by-year.pdf>

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

232 papers	98,562 citations	122 h-index	237 g-index
237 ext. papers	110,463 ext. citations	12.2 avg, IF	8.6 L-index

#	Paper	IF	Citations
232	Regulation of ER-derived membrane dynamics by the DedA domain-containing proteins VMP1 and TMEM41B.. <i>EMBO Reports</i> , 2022 , e53894	6.5	3
231	Evolutionary diversification of the autophagy-related ubiquitin-like conjugation systems.. <i>Autophagy</i> , 2022 , 1-16	10.2	1
230	Phosphorylation by casein kinase 2 enhances the interaction between ER-phagy receptor TEX264 and ATG8 proteins.. <i>EMBO Reports</i> , 2022 , e54801	6.5	3
229	An exploratory text analysis of the autophagy research field. <i>Autophagy</i> , 2021 , 1-14	10.2	0
228	Organelle degradation in the lens by PLAAT phospholipases. <i>Nature</i> , 2021 , 592, 634-638	50.4	20
227	Evolution and insights into the structure and function of the DedA superfamily containing TMEM41B and VMP1. <i>Journal of Cell Science</i> , 2021 , 134,	5.3	9
226	ZZ domains keep cytosol to vacuole delivery whiZZing along. <i>EMBO Journal</i> , 2021 , 40, e108777	13	2
225	NEK9 regulates primary cilia formation by acting as a selective autophagy adaptor for MYH9/myosin IIA. <i>Nature Communications</i> , 2021 , 12, 3292	17.4	4
224	The evolution of autophagy proteins - diversification in eukaryotes and potential ancestors in prokaryotes. <i>Journal of Cell Science</i> , 2021 , 134,	5.3	8
223	A new insight into the lens: cytosolic PLAAT phospholipases degrade organelles to make the lens transparent. <i>Autophagy</i> , 2021 , 17, 2645-2647	10.2	1
222	Wetting regulates autophagy of phase-separated compartments and the cytosol. <i>Nature</i> , 2021 , 591, 142-146	50.4	43
221	Should I bend or should I grow: the mechanisms of droplet-mediated autophagosome formation. <i>Autophagy</i> , 2021 , 17, 1046-1048	10.2	2
220	No air without autophagy: autophagy is important for lung and swim bladder inflation. <i>Autophagy</i> , 2021 , 17, 1040-1041	10.2	
219	Autophagosome maturation stymied by SARS-CoV-2. <i>Developmental Cell</i> , 2021 , 56, 400-402	10.2	6
218	Autophagy in major human diseases. <i>EMBO Journal</i> , 2021 , 40, e108863	13	79
217	Breakthroughs and bottlenecks in autophagy research. <i>Trends in Molecular Medicine</i> , 2021 , 27, 835-838	11.5	8
216	Wetting of phase-separated droplets on plant vacuole membranes leads to a competition between tonoplast budding and nanotube formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4

215	Genome-wide CRISPR screening reveals nucleotide synthesis negatively regulates autophagy. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100780	5.4	3
214	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). <i>Autophagy</i> , 2021 , 17, 1-382	10.2	440
213	ER-Phagy: Quality Control and Turnover of Endoplasmic Reticulum. <i>Trends in Cell Biology</i> , 2020 , 30, 384-398	10.2	72
212	Loss of autophagy impairs physiological steatosis by accumulation of NCoR1. <i>Life Science Alliance</i> , 2020 , 3,	5.8	10
211	Lysosome biology in autophagy. <i>Cell Discovery</i> , 2020 , 6, 6	22.3	164
210	The ATG conjugation systems in autophagy. <i>Current Opinion in Cell Biology</i> , 2020 , 63, 1-10	9	116
209	Autophagy in Human Diseases. <i>New England Journal of Medicine</i> , 2020 , 383, 1564-1576	59.2	206
208	Autophagy Assays for Biological Discovery and Therapeutic Development. <i>Trends in Biochemical Sciences</i> , 2020 , 45, 1080-1093	10.3	42
207	Modeling Membrane Morphological Change during Autophagosome Formation. <i>IScience</i> , 2020 , 23, 101466	10.2	5
206	Structure, lipid scrambling activity and role in autophagosome formation of ATG9A. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 1194-1201	17.6	73
205	Autophagy Is Required for Maturation of Surfactant-Containing Lamellar Bodies in the Lung and Swim Bladder. <i>Cell Reports</i> , 2020 , 33, 108477	10.6	11
204	Autophagy, Inflammation, and Metabolism (AIM) Center in its second year. <i>Autophagy</i> , 2019 , 15, 1829-1832	10.2	32
203	Intrinsically Disordered Protein TEX264 Mediates ER-phagy. <i>Molecular Cell</i> , 2019 , 74, 909-921.e6	17.6	127
202	Evolution from covalent conjugation to non-covalent interaction in the ubiquitin-like ATG12 system. <i>Nature Structural and Molecular Biology</i> , 2019 , 26, 289-296	17.6	20
201	Autophagy Regulation of Metabolism Is Required for CD8 T Cell Anti-tumor Immunity. <i>Cell Reports</i> , 2019 , 27, 502-513.e5	10.6	76
200	Autophagy regulates lipid metabolism through selective turnover of NCoR1. <i>Nature Communications</i> , 2019 , 10, 1567	17.4	80
199	Diverse Cellular Roles of Autophagy. <i>Annual Review of Cell and Developmental Biology</i> , 2019 , 35, 453-475	12.6	123
198	The ubiquitin E2 enzyme UBE2QL1 mediates lysophagy. <i>EMBO Reports</i> , 2019 , 20, e49104	6.5	5

197	A critical role of VMP1 in lipoprotein secretion. <i>ELife</i> , 2019 , 8,	8.9	26
196	TMEM41B functions with VMP1 in autophagosome formation. <i>Autophagy</i> , 2019 , 15, 922-923	10.2	24
195	YKT6 as a second SNARE protein of mammalian autophagosomes. <i>Autophagy</i> , 2019 , 15, 176-177	10.2	5
194	A brief history of autophagy from cell biology to physiology and disease. <i>Nature Cell Biology</i> , 2018 , 20, 521-527	23.4	338
193	A Dual Binding Receptor for ER-phagy. <i>Developmental Cell</i> , 2018 , 44, 133-135	10.2	11
192	Genome-wide CRISPR screen identifies a gene required for autophagosome formation. <i>Journal of Cell Biology</i> , 2018 , 217, 3817-3828	7.3	105
191	Systematic analysis of ATG13 domain requirements for autophagy induction. <i>Autophagy</i> , 2018 , 14, 743-763	63.2	28
190	Autophagosomal YKT6 is required for fusion with lysosomes independently of syntaxin 17. <i>Journal of Cell Biology</i> , 2018 , 217, 2633-2645	7.3	104
189	A new probe to measure autophagic flux in vitro and in vivo. <i>Autophagy</i> , 2017 , 13, 757-758	10.2	24
188	Transgenic rescue of Atg5-null mice from neonatal lethality with neuron-specific expression of ATG5: Systemic analysis of adult Atg5-deficient mice. <i>Autophagy</i> , 2017 , 13, 763-764	10.2	11
187	The exponential growth of autophagy-related research: from the humble yeast to the Nobel Prize. <i>FEBS Letters</i> , 2017 , 591, 681-689	3.8	20
186	Autophagosome formation is initiated at phosphatidylinositol synthase-enriched ER subdomains. <i>EMBO Journal</i> , 2017 , 36, 1719-1735	13	114
185	Autophagy is essential for hearing in mice. <i>Cell Death and Disease</i> , 2017 , 8, e2780	9.8	33
184	Molecular definitions of autophagy and related processes. <i>EMBO Journal</i> , 2017 , 36, 1811-1836	13	857
183	ATG conjugation-dependent degradation of the inner autophagosomal membrane is a key step for autophagosome maturation. <i>Autophagy</i> , 2017 , 13, 1252-1253	10.2	7
182	Accumulation of undegraded autophagosomes by expression of dominant-negative STX17 (syntaxin 17) mutants. <i>Autophagy</i> , 2017 , 13, 1452-1464	10.2	26
181	Monitoring and Measuring Autophagy. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	492
180	Autophagy-monitoring and autophagy-deficient mice. <i>Autophagy</i> , 2017 , 13, 1619-1628	10.2	177

179	Fusion and scission of membranes: Ubiquitous topological transformations in cells. <i>Traffic</i> , 2017 , 18, 758-761	5.7	10
178	The ULK complex initiates autophagosome formation at phosphatidylinositol synthase-enriched ER subdomains. <i>Autophagy</i> , 2017 , 13, 1795-1796	10.2	14
177	Differential requirement for ATG2A domains for localization to autophagic membranes and lipid droplets. <i>FEBS Letters</i> , 2017 , 591, 3819-3830	3.8	47
176	Vps34 regulates myofibril proteostasis to prevent hypertrophic cardiomyopathy. <i>JCI Insight</i> , 2017 , 2, e89462	9.9	14
175	Genetic screen in Drosophila muscle identifies autophagy-mediated T-tubule remodeling and a Rab2 role in autophagy. <i>ELife</i> , 2017 , 6,	8.9	57
174	Autophagy in the lens. <i>Experimental Eye Research</i> , 2016 , 144, 22-8	3.7	34
173	The ATG conjugation systems are important for degradation of the inner autophagosomal membrane. <i>Science</i> , 2016 , 354, 1036-1041	33.3	281
172	An Autophagic Flux Probe that Releases an Internal Control. <i>Molecular Cell</i> , 2016 , 64, 835-849	17.6	264
171	Atg101: Not Just an Accessory Subunit in the Autophagy-initiation Complex. <i>Cell Structure and Function</i> , 2016 , 41, 13-20	2.2	14
170	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
169	Atg13 Is Essential for Autophagy and Cardiac Development in Mice. <i>Molecular and Cellular Biology</i> , 2016 , 36, 585-95	4.8	66
168	Elevated p62/SQSTM1 determines the fate of autophagy-deficient neural stem cells by increasing superoxide. <i>Journal of Cell Biology</i> , 2016 , 212, 545-60	7.3	38
167	Systemic Analysis of Atg5-Null Mice Rescued from Neonatal Lethality by Transgenic ATG5 Expression in Neurons. <i>Developmental Cell</i> , 2016 , 39, 116-130	10.2	71
166	Expression of a ULK1/2 binding-deficient ATG13 variant can partially restore autophagic activity in ATG13-deficient cells. <i>Autophagy</i> , 2015 , 11, 1471-83	10.2	40
165	Survival of effector CD8+ T cells during influenza infection is dependent on autophagy. <i>Journal of Immunology</i> , 2015 , 194, 4277-86	5.3	47
164	Open and closed HORMAs regulate autophagy initiation. <i>Autophagy</i> , 2015 , 11, 2123-2124	10.2	5
163	Nbr1, a Receptor for ESCRT-Dependent Endosomal Microautophagy in Fission Yeast. <i>Molecular Cell</i> , 2015 , 59, 887-9	17.6	9
162	LC3- and p62-based biochemical methods for the analysis of autophagy progression in mammalian cells. <i>Methods</i> , 2015 , 75, 13-8	4.6	268

161	Structure of the Atg101-Atg13 complex reveals essential roles of Atg101 in autophagy initiation. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 572-80	17.6	71
160	The autophagy gene Wdr45/Wipi4 regulates learning and memory function and axonal homeostasis. <i>Autophagy</i> , 2015 , 11, 881-90	10.2	87
159	Autophagy machinery in the context of mammalian mitophagy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015 , 1853, 2797-801	4.9	63
158	Cycloheximide inhibits starvation-induced autophagy through mTORC1 activation. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 445, 334-9	3.4	56
157	The HOPS complex mediates autophagosome-lysosome fusion through interaction with syntaxin 17. <i>Molecular Biology of the Cell</i> , 2014 , 25, 1327-37	3.5	298
156	At the end of the autophagic road: an emerging understanding of lysosomal functions in autophagy. <i>Trends in Biochemical Sciences</i> , 2014 , 39, 61-71	10.3	261
155	Fertilization-induced autophagy in mouse embryos is independent of mTORC1. <i>Biology of Reproduction</i> , 2014 , 91, 7	3.9	32
154	Autophagy and human diseases. <i>Cell Research</i> , 2014 , 24, 69-79	24.7	572
153	Stearoyl-CoA desaturase 1 activity is required for autophagosome formation. <i>Journal of Biological Chemistry</i> , 2014 , 289, 23938-50	5.4	46
152	Expression of the autophagy substrate SQSTM1/p62 is restored during prolonged starvation depending on transcriptional upregulation and autophagy-derived amino acids. <i>Autophagy</i> , 2014 , 10, 431-41	10.2	259
151	Dynamic involvement of ATG5 in cellular stress responses. <i>Cell Death and Disease</i> , 2014 , 5, e1478	9.8	15
150	Ultrastructural analysis of autophagosome organization using mammalian autophagy-deficient cells. <i>Journal of Cell Science</i> , 2014 , 127, 4984-4984	5.3	32
149	Ultrastructural analysis of autophagosome organization using mammalian autophagy-deficient cells. <i>Journal of Cell Science</i> , 2014 , 127, 4089-102	5.3	142
148	Sugar modification inhibits autophagosome-lysosome fusion. <i>Nature Cell Biology</i> , 2014 , 16, 1132-3	23.4	11
147	ATG8 localization in apicomplexan parasites: apicoplast and more?. <i>Autophagy</i> , 2014 , 10, 1487-94	10.2	17
146	Differential contribution of insulin and amino acids to the mTORC1-autophagy pathway in the liver and muscle. <i>Journal of Biological Chemistry</i> , 2013 , 288, 21074-21081	5.4	60
145	Dynamic association of the ULK1 complex with omegasomes during autophagy induction. <i>Journal of Cell Science</i> , 2013 , 126, 5224-38	5.3	154
144	De novo mutations in the autophagy gene WDR45 cause static encephalopathy of childhood with neurodegeneration in adulthood. <i>Nature Genetics</i> , 2013 , 45, 445-9, 449e1	36.3	330

143	Deletion of autophagy-related 5 (Atg5) and Pik3c3 genes in the lens causes cataract independent of programmed organelle degradation. <i>Journal of Biological Chemistry</i> , 2013 , 288, 11436-47	5.4	92
142	Temporal analysis of recruitment of mammalian ATG proteins to the autophagosome formation site. <i>Autophagy</i> , 2013 , 9, 1491-9	10.2	156
141	Proteasome-dependent activation of mammalian target of rapamycin complex 1 (mTORC1) is essential for autophagy suppression and muscle remodeling following denervation. <i>Journal of Biological Chemistry</i> , 2013 , 288, 1125-34	5.4	80
140	Syntaxin 17: the autophagosomal SNARE. <i>Autophagy</i> , 2013 , 9, 917-9	10.2	47
139	Basal autophagy is required for the efficient catabolism of sialyloligosaccharides. <i>Journal of Biological Chemistry</i> , 2013 , 288, 26898-907	5.4	32
138	FIP200 regulates targeting of Atg16L1 to the isolation membrane. <i>EMBO Reports</i> , 2013 , 14, 284-91	6.5	138
137	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
136	The hairpin-type tail-anchored SNARE syntaxin 17 targets to autophagosomes for fusion with endosomes/lysosomes. <i>Cell</i> , 2012 , 151, 1256-69	56.2	789
135	Autophagy: resetting glutamine-dependent metabolism and oxygen consumption. <i>Autophagy</i> , 2012 , 8, 1477-93	10.2	47
134	Mitochondrial dysfunction associated with increased oxidative stress and β -synuclein accumulation in PARK2 iPSC-derived neurons and postmortem brain tissue. <i>Molecular Brain</i> , 2012 , 5, 35	4.5	271
133	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-544	10.2	2783
132	Autophagy-related Atg8 localizes to the apicoplast of the human malaria parasite <i>Plasmodium falciparum</i> . <i>PLoS ONE</i> , 2012 , 7, e42977	3.7	64
131	Ubiquitin-like proteins and autophagy at a glance. <i>Journal of Cell Science</i> , 2012 , 125, 2343-8	5.3	37
130	Autophagy plays a critical role in kidney tubule maintenance, aging and ischemia-reperfusion injury. <i>Autophagy</i> , 2012 , 8, 826-37	10.2	184
129	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
128	Structures containing Atg9A and the ULK1 complex independently target depolarized mitochondria at initial stages of Parkin-mediated mitophagy. <i>Journal of Cell Science</i> , 2012 , 125, 1488-99	5.3	207
127	Autophagy-deficient mice develop multiple liver tumors. <i>Genes and Development</i> , 2011 , 25, 795-800	12.6	918
126	Autophagy: renovation of cells and tissues. <i>Cell</i> , 2011 , 147, 728-41	56.2	3651

125	Autophagy in immunity and inflammation. <i>Nature</i> , 2011 , 469, 323-35	50.4	2408
124	A sensitive and quantitative technique for detecting autophagic events based on lysosomal delivery. <i>Chemistry and Biology</i> , 2011 , 18, 1042-52		374
123	The role of Atg proteins in autophagosome formation. <i>Annual Review of Cell and Developmental Biology</i> , 2011 , 27, 107-32	12.6	2096
122	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
121	Distinct mechanisms of ferritin delivery to lysosomes in iron-depleted and iron-replete cells. <i>Molecular and Cellular Biology</i> , 2011 , 31, 2040-52	4.8	151
120	Autophagy in protein and organelle turnover. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2011 , 76, 397-402	3.9	122
119	Crohn disease: a current perspective on genetics, autophagy and immunity. <i>Autophagy</i> , 2011 , 7, 355-74	10.2	84
118	A comprehensive glossary of autophagy-related molecules and processes (2nd edition). <i>Autophagy</i> , 2011 , 7, 1273-94	10.2	205
117	p62 Targeting to the autophagosome formation site requires self-oligomerization but not LC3 binding. <i>Journal of Cell Biology</i> , 2011 , 192, 17-27	7.3	309
116	Autophagy in mammalian development and differentiation. <i>Nature Cell Biology</i> , 2010 , 12, 823-30	23.4	1105
115	Characterization of autophagosome formation site by a hierarchical analysis of mammalian Atg proteins. <i>Autophagy</i> , 2010 , 6, 764-76	10.2	603
114	A comprehensive glossary of autophagy-related molecules and processes. <i>Autophagy</i> , 2010 , 6, 438-48	10.2	123
113	Inhibition of autophagy in the heart induces age-related cardiomyopathy. <i>Autophagy</i> , 2010 , 6, 600-6	10.2	321
112	Ubiquitin accumulation in autophagy-deficient mice is dependent on the Nrf2-mediated stress response pathway: a potential role for protein aggregation in autophagic substrate selection. <i>Journal of Cell Biology</i> , 2010 , 191, 537-52	7.3	137
111	Reevaluation of neurodegeneration in lurcher mice: constitutive ion fluxes cause cell death with, not by, autophagy. <i>Journal of Neuroscience</i> , 2010 , 30, 2177-87	6.6	30
110	Dynein- and activity-dependent retrograde transport of autophagosomes in neuronal axons. <i>Autophagy</i> , 2010 , 6, 378-85	10.2	62
109	Methods in mammalian autophagy research. <i>Cell</i> , 2010 , 140, 313-26	56.2	3387
108	Physiological role of autophagy as an intracellular recycling system: with an emphasis on nutrient metabolism. <i>Seminars in Cell and Developmental Biology</i> , 2010 , 21, 683-90	7.5	151

107	Tti1 and Tel2 are critical factors in mammalian target of rapamycin complex assembly. <i>Journal of Biological Chemistry</i> , 2010 , 285, 20109-16	5.4	179
106	In vivo requirement for Atg5 in antigen presentation by dendritic cells. <i>Immunity</i> , 2010 , 32, 227-39	32.3	372
105	Cisplatin-induced macroautophagy occurs prior to apoptosis in proximal tubules in vivo. <i>Clinical and Experimental Nephrology</i> , 2010 , 14, 112-22	2.5	72
104	The role of the Atg1/ULK1 complex in autophagy regulation. <i>Current Opinion in Cell Biology</i> , 2010 , 22, 132-9	9	768
103	Autophagy. <i>FEBS Letters</i> , 2010 , 584, 1279	3.8	23
102	Autophagy influences glomerular disease susceptibility and maintains podocyte homeostasis in aging mice. <i>Journal of Clinical Investigation</i> , 2010 , 120, 1084-96	15.9	484
101	Methods for monitoring autophagy using GFP-LC3 transgenic mice. <i>Methods in Enzymology</i> , 2009 , 452, 13-23	1.7	124
100	Identification of Atg5-dependent transcriptional changes and increases in mitochondrial mass in Atg5-deficient T lymphocytes. <i>Autophagy</i> , 2009 , 5, 625-35	10.2	164
99	Atg101, a novel mammalian autophagy protein interacting with Atg13. <i>Autophagy</i> , 2009 , 5, 973-9	10.2	335
98	When more is less: excess and deficiency of autophagy coexist in skeletal muscle in Pompe disease. <i>Autophagy</i> , 2009 , 5, 111-3	10.2	46
97	Atg14 and UVRAG: mutually exclusive subunits of mammalian Beclin 1-PI3K complexes. <i>Autophagy</i> , 2009 , 5, 534-6	10.2	93
96	Macroautophagy, endogenous MHC II loading and T cell selection: the benefits of breaking the rules. <i>Current Opinion in Immunology</i> , 2009 , 21, 92-7	7.8	40
95	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
94	A receptor for eating mitochondria. <i>Developmental Cell</i> , 2009 , 17, 1-2	10.2	15
93	Nutrient-dependent mTORC1 association with the ULK1-Atg13-FIP200 complex required for autophagy. <i>Molecular Biology of the Cell</i> , 2009 , 20, 1981-91	3.5	1419
92	Role of ULK-FIP200 complex in mammalian autophagy: FIP200, a counterpart of yeast Atg17?. <i>Autophagy</i> , 2009 , 5, 85-7	10.2	94
91	Physiological functions of autophagy. <i>Current Topics in Microbiology and Immunology</i> , 2009 , 335, 71-84	3.3	180
90	Autophagy fights disease through cellular self-digestion. <i>Nature</i> , 2008 , 451, 1069-75	50.4	4910

89	Autophagy in thymic epithelium shapes the T-cell repertoire and is essential for tolerance. <i>Nature</i> , 2008 , 455, 396-400	50.4	403
88	A key role for autophagy and the autophagy gene Atg16l1 in mouse and human intestinal Paneth cells. <i>Nature</i> , 2008 , 456, 259-63	50.4	1133
87	DAP-kinase is a mediator of endoplasmic reticulum stress-induced caspase activation and autophagic cell death. <i>Cell Death and Differentiation</i> , 2008 , 15, 1875-86	12.7	198
86	Autophagy is essential for preimplantation development of mouse embryos. <i>Science</i> , 2008 , 321, 117-20	33.3	420
85	Autophagosome-independent essential function for the autophagy protein Atg5 in cellular immunity to intracellular pathogens. <i>Cell Host and Microbe</i> , 2008 , 4, 458-69	23.4	332
84	Beclin 1 forms two distinct phosphatidylinositol 3-kinase complexes with mammalian Atg14 and UVRAG. <i>Molecular Biology of the Cell</i> , 2008 , 19, 5360-72	3.5	871
83	The role of autophagy during the oocyte-to-embryo transition. <i>Autophagy</i> , 2008 , 4, 1076-8	10.2	77
82	Isolation of hyperactive mutants of mammalian target of rapamycin. <i>Journal of Biological Chemistry</i> , 2008 , 283, 31861-70	5.4	54
81	Rapamycin inhibits polyglutamine aggregation independently of autophagy by reducing protein synthesis. <i>Molecular Pharmacology</i> , 2008 , 73, 1052-63	4.3	95
80	Constitutive activation of chaperone-mediated autophagy in cells with impaired macroautophagy. <i>Molecular Biology of the Cell</i> , 2008 , 19, 2179-92	3.5	247
79	Chromosomal mapping of the GFP-LC3 transgene in GFP-LC3 mice. <i>Autophagy</i> , 2008 , 4, 61-2	10.2	27
78	Suppression of autophagy in skeletal muscle uncovers the accumulation of ubiquitinated proteins and their potential role in muscle damage in Pompe disease. <i>Human Molecular Genetics</i> , 2008 , 17, 3897-908	5.6	244
77	The autophagy gene ATG5 plays an essential role in B lymphocyte development. <i>Autophagy</i> , 2008 , 4, 309-14	10.2	270
76	Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. <i>Autophagy</i> , 2008 , 4, 151-75	10.2	1920
75	FIP200, a ULK-interacting protein, is required for autophagosome formation in mammalian cells. <i>Journal of Cell Biology</i> , 2008 , 181, 497-510	7.3	716
74	Methamphetamine inhibits antigen processing, presentation, and phagocytosis. <i>PLoS Pathogens</i> , 2008 , 4, e28	7.6	100
73	The Atg8 conjugation system is indispensable for proper development of autophagic isolation membranes in mice. <i>Molecular Biology of the Cell</i> , 2008 , 19, 4762-75	3.5	361
72	Involvement of autophagy in trypsinogen activation within the pancreatic acinar cells. <i>Journal of Cell Biology</i> , 2008 , 181, 1065-72	7.3	160

71	GFP-like proteins stably accumulate in lysosomes. <i>Cell Structure and Function</i> , 2008 , 33, 1-12	2.2	152
70	Protein turnover via autophagy: implications for metabolism. <i>Annual Review of Nutrition</i> , 2007 , 27, 19-40	9.9	613
69	Crystallization and preliminary crystallographic analysis of human Atg4B-LC3 complex. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2007 , 63, 99-102		5
68	The role of autophagy in cardiomyocytes in the basal state and in response to hemodynamic stress. <i>Nature Medicine</i> , 2007 , 13, 619-24	50.5	1197
67	LC3, an autophagosome marker, can be incorporated into protein aggregates independent of autophagy: caution in the interpretation of LC3 localization. <i>Autophagy</i> , 2007 , 3, 323-8	10.2	449
66	Tissue-specific autophagy alterations and increased tumorigenesis in mice deficient in Atg4C/autophagin-3. <i>Journal of Biological Chemistry</i> , 2007 , 282, 18573-18583	5.4	335
65	A critical role for the autophagy gene Atg5 in T cell survival and proliferation. <i>Journal of Experimental Medicine</i> , 2007 , 204, 25-31	16.6	494
64	Aberrant membranes and double-membrane structures accumulate in the axons of Atg5-null Purkinje cells before neuronal death. <i>Autophagy</i> , 2007 , 3, 591-6	10.2	124
63	How to interpret LC3 immunoblotting. <i>Autophagy</i> , 2007 , 3, 542-5	10.2	1852
62	Coronavirus replication does not require the autophagy gene ATG5. <i>Autophagy</i> , 2007 , 3, 581-5	10.2	166
61	Analysis of the role of autophagy in replication of herpes simplex virus in cell culture. <i>Journal of Virology</i> , 2007 , 81, 12128-34	6.6	127
60	The role of mammalian autophagy in protein metabolism. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2007 , 83, 39-46	4	15
59	Homeostatic levels of p62 control cytoplasmic inclusion body formation in autophagy-deficient mice. <i>Cell</i> , 2007 , 131, 1149-63	56.2	1685
58	Autophagy: process and function. <i>Genes and Development</i> , 2007 , 21, 2861-73	12.6	2707
57	Autophagy-dependent viral recognition by plasmacytoid dendritic cells. <i>Science</i> , 2007 , 315, 1398-401	33.3	710
56	Intracellular quality control by autophagy: how does autophagy prevent neurodegeneration?. <i>Autophagy</i> , 2006 , 2, 302-4	10.2	66
55	ALIS are stress-induced protein storage compartments for substrates of the proteasome and autophagy. <i>Autophagy</i> , 2006 , 2, 189-99	10.2	162
54	Cellular autophagy machinery is not required for vaccinia virus replication and maturation. <i>Autophagy</i> , 2006 , 2, 91-5	10.2	34

53	Intracellular inclusions containing mutant alpha1-antitrypsin Z are propagated in the absence of autophagic activity. <i>Journal of Biological Chemistry</i> , 2006 , 281, 4467-76	5.4	201
52	Induction of autophagy in axonal dystrophy and degeneration. <i>Journal of Neuroscience</i> , 2006 , 26, 8057-68.6		270
51	Regulation of intracellular accumulation of mutant Huntingtin by Beclin 1. <i>Journal of Biological Chemistry</i> , 2006 , 281, 14474-85	5.4	351
50	Cerebral ischemia-hypoxia induces intravascular coagulation and autophagy. <i>American Journal of Pathology</i> , 2006 , 169, 566-83	5.8	304
49	Generation of cell lines with tetracycline-regulated autophagy and a role for autophagy in controlling cell size. <i>FEBS Letters</i> , 2006 , 580, 2623-9	3.8	173
48	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
47	Suppression of basal autophagy in neural cells causes neurodegenerative disease in mice. <i>Nature</i> , 2006 , 441, 885-9	50.4	3054
46	The dynamics of autophagy visualized in live cells: from autophagosome formation to fusion with endo/lysosomes. <i>Autophagy</i> , 2005 , 1, 23-36	10.2	320
45	Essential roles of Atg5 and FADD in autophagic cell death: dissection of autophagic cell death into vacuole formation and cell death. <i>Journal of Biological Chemistry</i> , 2005 , 280, 20722-9	5.4	417
44	Escape of intracellular Shigella from autophagy. <i>Science</i> , 2005 , 307, 727-31	33.3	695
43	Bcl-2 antiapoptotic proteins inhibit Beclin 1-dependent autophagy. <i>Cell</i> , 2005 , 122, 927-39	56.2	2852
42	Participation of autophagy in storage of lysosomes in neurons from mouse models of neuronal ceroid-lipofuscinoses (Batten disease). <i>American Journal of Pathology</i> , 2005 , 167, 1713-28	5.8	280
41	Autophagic Cell Death of Pancreatic Acinar Cells in Serine Protease Inhibitor Kazal Type 3Deficient Mice. <i>Gastroenterology</i> , 2005 , 129, 696-705	13.3	92
40	Chemical inhibitor of nonapoptotic cell death with therapeutic potential for ischemic brain injury. <i>Nature Chemical Biology</i> , 2005 , 1, 112-9	11.7	1874
39	The pleiotropic role of autophagy: from protein metabolism to bactericide. <i>Cell Death and Differentiation</i> , 2005 , 12 Suppl 2, 1535-41	12.7	382
38	Role of the UBL-UBA protein KPC2 in degradation of p27 at G1 phase of the cell cycle. <i>Molecular and Cellular Biology</i> , 2005 , 25, 9292-303	4.8	60
37	A(beta) generation in autophagic vacuoles. <i>Journal of Cell Biology</i> , 2005 , 171, 15-7	7.3	37
36	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

35	Impairment of starvation-induced and constitutive autophagy in Atg7-deficient mice. <i>Journal of Cell Biology</i> , 2005 , 169, 425-34	7.3	1881
34	Alfy, a novel FYVE-domain-containing protein associated with protein granules and autophagic membranes. <i>Journal of Cell Science</i> , 2004 , 117, 4239-51	5.3	228
33	Coronavirus replication complex formation utilizes components of cellular autophagy. <i>Journal of Biological Chemistry</i> , 2004 , 279, 10136-41	5.4	329
32	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
31	Role of Bcl-2 family proteins in a non-apoptotic programmed cell death dependent on autophagy genes. <i>Nature Cell Biology</i> , 2004 , 6, 1221-8	23.4	1185
30	The role of autophagy during the early neonatal starvation period. <i>Nature</i> , 2004 , 432, 1032-6	50.4	2366
29	Simple method of zygosity identification in transgenic mice by real-time quantitative PCR. <i>Transgenic Research</i> , 2004 , 13, 191-4	3.3	24
28	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
27	Transcriptomic and proteomic analysis of a 14-3-3 gene-deficient yeast. <i>Biochemistry</i> , 2004 , 43, 6149-58	3.2	35
26	Autophagy defends cells against invading group A <i>Streptococcus</i> . <i>Science</i> , 2004 , 306, 1037-40	33.3	909
25	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
24	Methods for monitoring autophagy. <i>International Journal of Biochemistry and Cell Biology</i> , 2004 , 36, 2491-502	15.502	769
23	Two ubiquitin-like conjugation systems essential for autophagy. <i>Seminars in Cell and Developmental Biology</i> , 2004 , 15, 231-6	7.5	248
22	Crystallization and preliminary X-ray analysis of LC3-I. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003 , 59, 1464-5		9
21	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
20	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
19	Localization of mammalian NAD(P)H steroid dehydrogenase-like protein on lipid droplets. <i>Journal of Biological Chemistry</i> , 2003 , 278, 36819-29	5.4	63
18	SKD1 AAA ATPase-dependent endosomal transport is involved in autolysosome formation. <i>Cell Structure and Function</i> , 2002 , 27, 29-37	2.2	122

17	Autophagosome formation in mammalian cells. <i>Cell Structure and Function</i> , 2002 , 27, 421-9	2.2	739
16	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
15	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
14	The pre-autophagosomal structure organized by concerted functions of APG genes is essential for autophagosome formation. <i>EMBO Journal</i> , 2001 , 20, 5971-81	13	751
13	Dissection of autophagosome formation using Apg5-deficient mouse embryonic stem cells. <i>Journal of Cell Biology</i> , 2001 , 152, 657-68	7.3	1165
12	A ubiquitin-like system mediates protein lipidation. <i>Nature</i> , 2000 , 408, 488-92	50.4	1494
11	LC3, a mammalian homologue of yeast Apg8p, is localized in autophagosome membranes after processing. <i>EMBO Journal</i> , 2000 , 19, 5720-8	13	4990
10	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
9	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
8	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
7	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
6	Apg7p/Cvt2p: A novel protein-activating enzyme essential for autophagy. <i>Molecular Biology of the Cell</i> , 1999 , 10, 1367-79	3.5	323
5	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
4	Apg10p, a novel protein-conjugating enzyme essential for autophagy in yeast. <i>EMBO Journal</i> , 1999 , 18, 5234-41	13	216
3	A protein conjugation system essential for autophagy. <i>Nature</i> , 1998 , 395, 395-8	50.4	1265
2	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
1	Transient visit of STX17 (syntaxin 17) to autophagosomes. <i>Autophagy</i> , 1-3	10.2	0