

Masaaki Komatsu

List of Publications by Citations

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204
papers

49,994
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86
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215
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215
ext. papers

57,085
ext. citations

10.1
avg, IF

7.4
L-index

#	Paper	IF	Citations
204	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
203	Autophagy: renovation of cells and tissues. <i>Cell</i> , 2011 , 147, 728-41	56.2	3651
202	Loss of autophagy in the central nervous system causes neurodegeneration in mice. <i>Nature</i> , 2006 , 441, 880-4	50.4	2804
201	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-544	10.2	2783
200	Autophagy regulates lipid metabolism. <i>Nature</i> , 2009 , 458, 1131-5	50.4	2485
199	Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. <i>Autophagy</i> , 2008 , 4, 151-75	10.2	1920
198	Impairment of starvation-induced and constitutive autophagy in Atg7-deficient mice. <i>Journal of Cell Biology</i> , 2005 , 169, 425-34	7.3	1881
197	Homeostatic levels of p62 control cytoplasmic inclusion body formation in autophagy-deficient mice. <i>Cell</i> , 2007 , 131, 1149-63	56.2	1685
196	Loss of the autophagy protein Atg16L1 enhances endotoxin-induced IL-1beta production. <i>Nature</i> , 2008 , 456, 264-8	50.4	1560
195	The selective autophagy substrate p62 activates the stress responsive transcription factor Nrf2 through inactivation of Keap1. <i>Nature Cell Biology</i> , 2010 , 12, 213-23	23.4	1540
194	Autophagy is required to maintain muscle mass. <i>Cell Metabolism</i> , 2009 , 10, 507-15	24.6	1332
193	PINK1 stabilized by mitochondrial depolarization recruits Parkin to damaged mitochondria and activates latent Parkin for mitophagy. <i>Journal of Cell Biology</i> , 2010 , 189, 211-21	7.3	1299
192	Toll-like receptor signalling in macrophages links the autophagy pathway to phagocytosis. <i>Nature</i> , 2007 , 450, 1253-7	50.4	987
191	Autophagy-deficient mice develop multiple liver tumors. <i>Genes and Development</i> , 2011 , 25, 795-800	12.6	918
190	A role for NBR1 in autophagosomal degradation of ubiquitinated substrates. <i>Molecular Cell</i> , 2009 , 33, 505-16	17.6	821
189	Discovery of Atg5/Atg7-independent alternative macroautophagy. <i>Nature</i> , 2009 , 461, 654-8	50.4	816
188	Phosphorylation of p62 activates the Keap1-Nrf2 pathway during selective autophagy. <i>Molecular Cell</i> , 2013 , 51, 618-31	17.6	664

187	Autophagy is important in islet homeostasis and compensatory increase of beta cell mass in response to high-fat diet. <i>Cell Metabolism</i> , 2008 , 8, 325-32	24.6	582
186	Structural basis for sorting mechanism of p62 in selective autophagy. <i>Journal of Biological Chemistry</i> , 2008 , 283, 22847-57	5.4	553
185	Autophagy deficiency leads to protection from obesity and insulin resistance by inducing Fgf21 as a mitokine. <i>Nature Medicine</i> , 2013 , 19, 83-92	50.5	542
184	Loss of autophagy diminishes pancreatic beta cell mass and function with resultant hyperglycemia. <i>Cell Metabolism</i> , 2008 , 8, 318-24	24.6	505
183	Adipose-specific deletion of autophagy-related gene 7 (atg7) in mice reveals a role in adipogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 19860-5	11.5	489
182	Essential role for autophagy protein Atg7 in the maintenance of axonal homeostasis and the prevention of axonal degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 14489-94	11.5	487
181	Persistent activation of Nrf2 through p62 in hepatocellular carcinoma cells. <i>Journal of Cell Biology</i> , 2011 , 193, 275-84	7.3	452
180	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). <i>Autophagy</i> , 2021 , 17, 1-382	10.2	440
179	p62/SQSTM1 functions as a signaling hub and an autophagy adaptor. <i>FEBS Journal</i> , 2015 , 282, 4672-8	5.7	436
178	Inhibition of autophagy prevents hippocampal pyramidal neuron death after hypoxic-ischemic injury. <i>American Journal of Pathology</i> , 2008 , 172, 454-69	5.8	400
177	Physiological significance of selective degradation of p62 by autophagy. <i>FEBS Letters</i> , 2010 , 584, 1374-83	8.8	392
176	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
175	Autophagy in proximal tubules protects against acute kidney injury. <i>Kidney International</i> , 2012 , 82, 1271-83	9.3	323
174	Autophagy is essential for mitochondrial clearance in mature T lymphocytes. <i>Journal of Immunology</i> , 2009 , 182, 4046-55	5.3	323
173	PINK1 autophosphorylation upon membrane potential dissipation is essential for Parkin recruitment to damaged mitochondria. <i>Nature Communications</i> , 2012 , 3, 1016	17.4	323
172	Functions of autophagy in normal and diseased liver. <i>Autophagy</i> , 2013 , 9, 1131-58	10.2	321
171	Keap1 degradation by autophagy for the maintenance of redox homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 13561-6	11.5	318
170	p62/SQSTM1 cooperates with Parkin for perinuclear clustering of depolarized mitochondria. <i>Genes To Cells</i> , 2010 , 15, 887-900	2.3	299

169	Loss of autophagy in erythroid cells leads to defective removal of mitochondria and severe anemia in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 832-7	11.5	285
168	Autophagy in the liver: functions in health and disease. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2017 , 14, 170-184	24.2	244
167	Mitochondrial dysfunction and oxidative stress mediate the physiological impairment induced by the disruption of autophagy. <i>Aging</i> , 2009 , 1, 425-37	5.6	237
166	A novel protein-conjugating system for Ufm1, a ubiquitin-fold modifier. <i>EMBO Journal</i> , 2004 , 23, 1977-86	3	215
165	p62/SQSTM1/A170: physiology and pathology. <i>Pharmacological Research</i> , 2012 , 66, 457-62	10.2	212
164	Disrupted autophagy leads to dopaminergic axon and dendrite degeneration and promotes presynaptic accumulation of Synuclein and LRRK2 in the brain. <i>Journal of Neuroscience</i> , 2012 , 32, 7585-93	6.6	207
163	Human Apg3p/Aut1p homologue is an authentic E2 enzyme for multiple substrates, GATE-16, GABARAP, and MAP-LC3, and facilitates the conjugation of hApg12p to hApg5p. <i>Journal of Biological Chemistry</i> , 2002 , 277, 13739-44	5.4	206
162	Selective degradation of p62 by autophagy. <i>Seminars in Immunopathology</i> , 2010 , 32, 431-6	12	195
161	Liver autophagy contributes to the maintenance of blood glucose and amino acid levels. <i>Autophagy</i> , 2011 , 7, 727-36	10.2	194
160	Excess peroxisomes are degraded by autophagic machinery in mammals. <i>Journal of Biological Chemistry</i> , 2006 , 281, 4035-41	5.4	188
159	The MAP1-LC3 conjugation system is involved in lipid droplet formation. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 382, 419-23	3.4	187
158	Human IRGM regulates autophagy and cell-autonomous immunity functions through mitochondria. <i>Nature Cell Biology</i> , 2010 , 12, 1154-65	23.4	186
157	p62/Sqstm1 promotes malignancy of HCV-positive hepatocellular carcinoma through Nrf2-dependent metabolic reprogramming. <i>Nature Communications</i> , 2016 , 7, 12030	17.4	180
156	Selective turnover of p62/A170/SQSTM1 by autophagy. <i>Autophagy</i> , 2008 , 4, 1063-6	10.2	179
155	Proteotoxic stress induces phosphorylation of p62/SQSTM1 by ULK1 to regulate selective autophagic clearance of protein aggregates. <i>PLoS Genetics</i> , 2015 , 11, e1004987	6	178
154	Autophagy-monitoring and autophagy-deficient mice. <i>Autophagy</i> , 2017 , 13, 1619-1628	10.2	177
153	A common role for Atg16L1, Atg5 and Atg7 in small intestinal Paneth cells and Crohn disease. <i>Autophagy</i> , 2009 , 5, 250-2	10.2	172
152	Autophagy regulates endothelial cell processing, maturation and secretion of von Willebrand factor. <i>Nature Medicine</i> , 2013 , 19, 1281-7	50.5	167

151	Mechanisms of necroptosis in T cells. <i>Journal of Experimental Medicine</i> , 2011 , 208, 633-41	16.6	167
150	Ubiquitylation of autophagy receptor Optineurin by HACE1 activates selective autophagy for tumor suppression. <i>Cancer Cell</i> , 2014 , 26, 106-20	24.3	156
149	Phosphatidylserine in addition to phosphatidylethanolamine is an in vitro target of the mammalian Atg8 modifiers, LC3, GABARAP, and GATE-16. <i>Journal of Biological Chemistry</i> , 2006 , 281, 3017-24	5.4	154
148	Attenuation of cGAS-STING signaling is mediated by a p62/SQSTM1-dependent autophagy pathway activated by TBK1. <i>EMBO Journal</i> , 2018 , 37,	13	152
147	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
146	Motor neuron-specific disruption of proteasomes, but not autophagy, replicates amyotrophic lateral sclerosis. <i>Journal of Biological Chemistry</i> , 2012 , 287, 42984-94	5.4	141
145	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
144	p62/SQSTM1 - steering the cell through health and disease. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	137
143	Constitutive autophagy: vital role in clearance of unfavorable proteins in neurons. <i>Cell Death and Differentiation</i> , 2007 , 14, 887-94	12.7	136
142	Autophagy deficiency in beta cells leads to compromised unfolded protein response and progression from obesity to diabetes in mice. <i>Diabetologia</i> , 2012 , 55, 392-403	10.3	130
141	Suppression of autophagy in osteocytes mimics skeletal aging. <i>Journal of Biological Chemistry</i> , 2013 , 288, 17432-40	5.4	129
140	The cellular pathways of neuronal autophagy and their implication in neurodegenerative diseases. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009 , 1793, 1496-507	4.9	127
139	Systemic autophagy insufficiency compromises adaptation to metabolic stress and facilitates progression from obesity to diabetes. <i>Nature Communications</i> , 2014 , 5, 4934	17.4	126
138	Autophagy regulates phagocytosis by modulating the expression of scavenger receptors. <i>Immunity</i> , 2013 , 39, 537-47	32.3	126
137	A novel type of E3 ligase for the Ufm1 conjugation system. <i>Journal of Biological Chemistry</i> , 2010 , 285, 5417-27	5.4	122
136	Selective autophagy regulates various cellular functions. <i>Genes To Cells</i> , 2010 , 15, 923-33	2.3	121
135	Loss of autophagy in pro-opiomelanocortin neurons perturbs axon growth and causes metabolic dysregulation. <i>Cell Metabolism</i> , 2012 , 15, 247-55	24.6	119
134	Suppression of autophagy permits successful enzyme replacement therapy in a lysosomal storage disorder--murine Pompe disease. <i>Autophagy</i> , 2010 , 6, 1078-89	10.2	115

133	Amyloidogenic peptide oligomer accumulation in autophagy-deficient β cells induces diabetes. <i>Journal of Clinical Investigation</i> , 2014 , 124, 3311-24	15.9	112
132	Macroautophagy deficiency mediates age-dependent neurodegeneration through a phospho-tau pathway. <i>Molecular Neurodegeneration</i> , 2012 , 7, 48	19	111
131	Akt suppresses retrograde degeneration of dopaminergic axons by inhibition of macroautophagy. <i>Journal of Neuroscience</i> , 2011 , 31, 2125-35	6.6	111
130	Ubiquitin systems mark pathogen-containing vacuoles as targets for host defense by guanylate binding proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E5628-37	11.5	109
129	Autophagy: more than a nonselective pathway. <i>International Journal of Cell Biology</i> , 2012 , 2012, 219625-26	2.6	107
128	Trehalose protects against oxidative stress by regulating the Keap1-Nrf2 and autophagy pathways. <i>Redox Biology</i> , 2018 , 15, 115-124	11.3	105
127	Modification of ASC1 by UFM1 is crucial for ER α transactivation and breast cancer development. <i>Molecular Cell</i> , 2014 , 56, 261-274	17.6	104
126	p62/SQSTM1: Jack of all trades in health and cancer. <i>FEBS Journal</i> , 2019 , 286, 8-23	5.7	102
125	Linear ubiquitination of cytosolic Salmonella Typhimurium activates NF- κ B and restricts bacterial proliferation. <i>Nature Microbiology</i> , 2017 , 2, 17066	26.6	101
124	Impaired autophagy in neurons after disinhibition of mammalian target of rapamycin and its contribution to epileptogenesis. <i>Journal of Neuroscience</i> , 2012 , 32, 15704-14	6.6	100
123	Ubiquitylation of p62/sequestosome1 activates its autophagy receptor function and controls selective autophagy upon ubiquitin stress. <i>Cell Research</i> , 2017 , 27, 657-674	24.7	96
122	Crucial role for autophagy in degranulation of mast cells. <i>Journal of Allergy and Clinical Immunology</i> , 2011 , 127, 1267-76.e6	11.5	96
121	GATE-16 and GABARAP are authentic modifiers mediated by Apg7 and Apg3. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 300, 637-44	3.4	91
120	A cluster of thin tubular structures mediates transformation of the endoplasmic reticulum to autophagic isolation membrane. <i>Molecular and Cellular Biology</i> , 2014 , 34, 1695-706	4.8	89
119	Regulation of the Keap1-Nrf2 pathway by p62/SQSTM1. <i>Current Opinion in Toxicology</i> , 2016 , 1, 54-61	4.4	86
118	The Ufm1-activating enzyme Uba5 is indispensable for erythroid differentiation in mice. <i>Nature Communications</i> , 2011 , 2, 181	17.4	85
117	Autophagy is induced upon platelet activation and is essential for hemostasis and thrombosis. <i>Blood</i> , 2015 , 126, 1224-33	2.2	81
116	Role of hypothalamic proopiomelanocortin neuron autophagy in the control of appetite and leptin response. <i>Endocrinology</i> , 2012 , 153, 1817-26	4.8	81

115	Autophagy regulates lipid metabolism through selective turnover of NCoR1. <i>Nature Communications</i> , 2019 , 10, 1567	17.4	80
114	Proteasome dysfunction activates autophagy and the Keap1-Nrf2 pathway. <i>Journal of Biological Chemistry</i> , 2014 , 289, 24944-55	5.4	79
113	Crystal structure of the ubiquitin-associated (UBA) domain of p62 and its interaction with ubiquitin. <i>Journal of Biological Chemistry</i> , 2011 , 286, 31864-74	5.4	79
112	Two novel ubiquitin-fold modifier 1 (Ufm1)-specific proteases, UfSP1 and UfSP2. <i>Journal of Biological Chemistry</i> , 2007 , 282, 5256-62	5.4	78
111	Autophagy regulates hepatocyte identity and epithelial-to-mesenchymal and mesenchymal-to-epithelial transitions promoting Snail degradation. <i>Cell Death and Disease</i> , 2015 , 6, e1880	8.8	76
110	Structural determinants in GABARAP required for the selective binding and recruitment of ALFY to LC3B-positive structures. <i>EMBO Reports</i> , 2014 , 15, 557-65	6.5	76
109	PKM1 Confers Metabolic Advantages and Promotes Cell-Autonomous Tumor Cell Growth. <i>Cancer Cell</i> , 2018 , 33, 355-367.e7	24.3	73
108	Loss of Pten, a tumor suppressor, causes the strong inhibition of autophagy without affecting LC3 lipidation. <i>Autophagy</i> , 2008 , 4, 692-700	10.2	73
107	Endogenous nitrated nucleotide is a key mediator of autophagy and innate defense against bacteria. <i>Molecular Cell</i> , 2013 , 52, 794-804	17.6	72
106	Transient aggregation of ubiquitinated proteins is a cytosolic unfolded protein response to inflammation and endoplasmic reticulum stress. <i>Journal of Biological Chemistry</i> , 2012 , 287, 19687-98	5.4	72
105	Autophagy in the intestinal epithelium reduces endotoxin-induced inflammatory responses by inhibiting NF- κ B activation. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 506, 223-35	4.1	70
104	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
103	The crystal structure of human Atg4b, a processing and de-conjugating enzyme for autophagosome-forming modifiers. <i>Journal of Molecular Biology</i> , 2006 , 355, 612-8	6.5	69
102	Receptor protein complexes are in control of autophagy. <i>Autophagy</i> , 2012 , 8, 1701-5	10.2	66
101	Loss of autophagy in dopaminergic neurons causes Lewy pathology and motor dysfunction in aged mice. <i>Scientific Reports</i> , 2018 , 8, 2813	4.9	63
100	Megalin-Mediated Tubuloglomerular Alterations in High-Fat Diet-Induced Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2016 , 27, 1996-2008	12.7	63
99	Autophagy and neurodegeneration. <i>Autophagy</i> , 2006 , 2, 315-7	10.2	61
98	Increased hepatic receptor interacting protein kinase 3 expression due to impaired proteasomal functions contributes to alcohol-induced steatosis and liver injury. <i>Oncotarget</i> , 2016 , 7, 17681-98	3.3	61

97	Loss of autophagy promotes murine acetaminophen hepatotoxicity. <i>Journal of Gastroenterology</i> , 2012 , 47, 433-43	6.9	56
96	Activation of p62/SQSTM1-Keap1-Nuclear Factor Erythroid 2-Related Factor 2 Pathway in Cancer. <i>Frontiers in Oncology</i> , 2018 , 8, 210	5.3	55
95	The unexpected role of polyubiquitin chains in the formation of fibrillar aggregates. <i>Nature Communications</i> , 2015 , 6, 6116	17.4	53
94	Dissection of the role of p62/Sqstm1 in activation of Nrf2 during xenophagy. <i>FEBS Letters</i> , 2014 , 588, 822-8	3.8	53
93	Autophagy linked FYVE (Alfy/WDFY3) is required for establishing neuronal connectivity in the mammalian brain. <i>ELife</i> , 2016 , 5,	8.9	53
92	The CD40-autophagy pathway is needed for host protection despite IFN- γ -dependent immunity and CD40 induces autophagy via control of P21 levels. <i>PLoS ONE</i> , 2010 , 5, e14472	3.7	52
91	Autophagy Protects against Colitis by the Maintenance of Normal Gut Microflora and Secretion of Mucus. <i>Journal of Biological Chemistry</i> , 2015 , 290, 20511-26	5.4	51
90	Atg9a deficiency causes axon-specific lesions including neuronal circuit dysgenesis. <i>Autophagy</i> , 2018 , 14, 764-777	10.2	49
89	Potential role of p62 in tumor development. <i>Autophagy</i> , 2011 , 7, 1088-90	10.2	49
88	Induction of Covalently Crosslinked p62 Oligomers with Reduced Binding to Polyubiquitinated Proteins by the Autophagy Inhibitor Verteporfin. <i>PLoS ONE</i> , 2014 , 9, e114964	3.7	49
87	Liver autophagy: physiology and pathology. <i>Journal of Biochemistry</i> , 2012 , 152, 5-15	3.1	48
86	Ezetimibe, an NPC1L1 inhibitor, is a potent Nrf2 activator that protects mice from diet-induced nonalcoholic steatohepatitis. <i>Free Radical Biology and Medicine</i> , 2016 , 99, 520-532	7.8	47
85	A novel hybrid yeast-human network analysis reveals an essential role for FNBP1L in antibacterial autophagy. <i>Journal of Immunology</i> , 2009 , 182, 4917-30	5.3	47
84	Sequestosome 1/p62 Protein Is Associated with Autophagic Removal of Excess Hepatic Endoplasmic Reticulum in Mice. <i>Journal of Biological Chemistry</i> , 2016 , 291, 18663-74	5.4	47
83	p62/SQSTM1-droplet serves as a platform for autophagosome formation and anti-oxidative stress response. <i>Nature Communications</i> , 2021 , 12, 16	17.4	46
82	Intermittent-hypoxia induced autophagy attenuates contractile dysfunction and myocardial injury in rat heart. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013 , 1832, 1159-66	6.9	45
81	Neuronal autophagy: going the distance to the axon. <i>Autophagy</i> , 2008 , 4, 94-6	10.2	45
80	NBR1-mediated p62-liquid droplets enhance the Keap1-Nrf2 system. <i>EMBO Reports</i> , 2020 , 21, e48902	6.5	43

79	Biallelic Variants in UBA5 Link Dysfunctional UFM1-Ubiquitin-like Modifier Pathway to Severe Infantile-Onset Encephalopathy. <i>American Journal of Human Genetics</i> , 2016 , 99, 683-694	11	43
78	Autophagy attenuates tubulointerstitial fibrosis through regulating transforming growth factor- β and NLRP3 inflammasome signaling pathway. <i>Cell Death and Disease</i> , 2019 , 10, 78	9.8	42
77	LC3 lipidation is essential for TFEB activation during the lysosomal damage response to kidney injury. <i>Nature Cell Biology</i> , 2020 , 22, 1252-1263	23.4	42
76	Structural and Functional Analysis of a Novel Interaction Motif within UFM1-activating Enzyme 5 (UBA5) Required for Binding to Ubiquitin-like Proteins and Ufm1ylation. <i>Journal of Biological Chemistry</i> , 2016 , 291, 9025-41	5.4	42
75	LC3B is indispensable for selective autophagy of p62 but not basal autophagy. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 446, 309-15	3.4	41
74	Solution structure and dynamics of Ufm1, a ubiquitin-fold modifier 1. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 343, 21-6	3.4	41
73	The CCR4-NOT deadenylase complex controls Atg7-dependent cell death and heart function. <i>Science Signaling</i> , 2018 , 11,	8.8	40
72	PARK2/Parkin-mediated mitochondrial clearance contributes to proteasome activation during slow-twitch muscle atrophy via NFE2L1 nuclear translocation. <i>Autophagy</i> , 2014 , 10, 631-41	10.2	38
71	Negative Regulation of the Keap1-Nrf2 Pathway by a p62/Sqstm1 Splicing Variant. <i>Molecular and Cellular Biology</i> , 2018 , 38,	4.8	37
70	Autophagy is involved in regulating influenza A virus RNA and protein synthesis associated with both modulation of Hsp90 induction and mTOR/p70S6K signaling pathway. <i>International Journal of Biochemistry and Cell Biology</i> , 2016 , 72, 100-108	5.6	37
69	Biochemical and morphological detection of inclusion bodies in autophagy-deficient mice. <i>Methods in Enzymology</i> , 2009 , 453, 181-96	1.7	37
68	Selective types of autophagy. <i>International Journal of Cell Biology</i> , 2012 , 2012, 156272	2.6	37
67	The FAP motif within human ATG7, an autophagy-related E1-like enzyme, is essential for the E2-substrate reaction of LC3 lipidation. <i>Autophagy</i> , 2012 , 8, 88-97	10.2	37
66	Cloning and characterization of two neural-salient serine/arginine-rich (NSSR) proteins involved in the regulation of alternative splicing in neurones. <i>Genes To Cells</i> , 1999 , 4, 593-606	2.3	37
65	Comprehensive proteomics analysis of autophagy-deficient mouse liver. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 368, 643-9	3.4	36
64	Inducible disruption of autophagy in the lung causes airway hyper-responsiveness. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 405, 13-8	3.4	35
63	Pathophysiological role of autophagy: lesson from autophagy-deficient mouse models. <i>Experimental Animals</i> , 2011 , 60, 329-45	1.8	35
62	Structure of ubiquitin-fold modifier 1-specific protease UFM1. <i>Journal of Biological Chemistry</i> , 2011 , 286, 10248-57	5.4	35

61	Biallelic UFM1 and UFC1 mutations expand the essential role of ufmylation in brain development. <i>Brain</i> , 2018 , 141, 1934-1945	11.2	34
60	The significant role of autophagy in the granular layer in normal skin differentiation and hair growth. <i>Archives of Dermatological Research</i> , 2015 , 307, 159-69	3.3	33
59	Developing postmitotic mammalian neurons in vivo lacking Apaf-1 undergo programmed cell death by a caspase-independent, nonapoptotic pathway involving autophagy. <i>Journal of Neuroscience</i> , 2008 , 28, 1490-7	6.6	33
58	Autophagy is involved in anti-viral activity of pentagalloylglucose (PGG) against Herpes simplex virus type 1 infection in vitro. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 405, 186-91	3.4	32
57	Novel therapeutic strategy for cervical cancer harboring FGFR3-TACC3 fusions. <i>Oncogenesis</i> , 2018 , 7, 4	6.6	30
56	Synthesis of Keap1-phosphorylated p62 and Keap1-Nrf2 protein-protein interaction inhibitors and their inhibitory activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 5956-5959	2.9	30
55	Autophagy induced by calcium phosphate precipitates involves endoplasmic reticulum membranes in autophagosome biogenesis. <i>PLoS ONE</i> , 2012 , 7, e52347	3.7	30
54	MAZ, a Myc-associated zinc finger protein, is essential for the ME1a1-mediated expression of the c-myc gene during neuroectodermal differentiation of P19 cells. <i>Oncogene</i> , 1997 , 15, 1123-31	9.2	30
53	Crystal structure of Ufc1, the Ufm1-conjugating enzyme. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 362, 1079-84	3.4	30
52	PAC1 gene knockout reveals an essential role of chaperone-mediated 20S proteasome biogenesis and latent 20S proteasomes in cellular homeostasis. <i>Molecular and Cellular Biology</i> , 2010 , 30, 3864-74	4.8	28
51	Murine Apg12p has a substrate preference for murine Apg7p over three Apg8p homologs. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 292, 256-62	3.4	27
50	DNA damage response and sphingolipid signaling in liver diseases. <i>Surgery Today</i> , 2016 , 46, 995-1005	3	25
49	Ohmyungamycins promote antimicrobial responses through autophagy activation via AMP-activated protein kinase pathway. <i>Scientific Reports</i> , 2017 , 7, 3431	4.9	24
48	Discovery of benzo[g]indoles as a novel class of non-covalent Keap1-Nrf2 protein-protein interaction inhibitor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017 , 27, 5006-5009	2.9	20
47	Loss of autophagy in chondrocytes causes severe growth retardation. <i>Autophagy</i> , 2020 , 16, 501-511	10.2	20
46	Atg5 regulates late endosome and lysosome biogenesis. <i>Science China Life Sciences</i> , 2014 , 57, 59-68	8.5	19
45	Suppression of autophagy sensitizes Kupffer cells to endotoxin. <i>Hepatology Research</i> , 2012 , 42, 1112-8	5.1	18
44	Physiological Stress Response by Selective Autophagy. <i>Journal of Molecular Biology</i> , 2020 , 432, 53-62	6.5	17

43	USP10 Is a Driver of Ubiquitinated Protein Aggregation and Aggresome Formation to Inhibit Apoptosis. <i>IScience</i> , 2018 , 9, 433-450	6.1	17
42	Transient increase in proteinuria, poly-ubiquitylated proteins and ER stress markers in podocyte-specific autophagy-deficient mice following unilateral nephrectomy. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 446, 1190-6	3.4	16
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