

Takeshi Noda

List of Publications by Citations

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102
papers

37,348
citations

61
h-index

110
g-index

110
ext. papers

41,597
ext. citations

9.2
avg, IF

6.7
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 102 | LC3, a mammalian homologue of yeast Apg8p, is localized in autophagosome membranes after processing. <i>EMBO Journal</i> , 2000 , 19, 5720-8 | 13 | 4990 |
| 101 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222 | 10.2 | 3838 |
| 100 | Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-544 | 10.2 | 2783 |
| 99 | Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. <i>Autophagy</i> , 2008 , 4, 151-75 | 10.2 | 1920 |
| 98 | Dissection of the autophagosome maturation process by a novel reporter protein, tandem fluorescent-tagged LC3. <i>Autophagy</i> , 2007 , 3, 452-60 | 10.2 | 1628 |
| 97 | Loss of the autophagy protein Atg16L1 enhances endotoxin-induced IL-1beta production. <i>Nature</i> , 2008 , 456, 264-8 | 50.4 | 1560 |
| 96 | A ubiquitin-like system mediates protein lipidation. <i>Nature</i> , 2000 , 408, 488-92 | 50.4 | 1494 |
| 95 | A protein conjugation system essential for autophagy. <i>Nature</i> , 1998 , 395, 395-8 | 50.4 | 1265 |
| 94 | Autophagosomes form at ER-mitochondria contact sites. <i>Nature</i> , 2013 , 495, 389-93 | 50.4 | 1148 |
| 93 | Tor, a phosphatidylinositol kinase homologue, controls autophagy in yeast. <i>Journal of Biological Chemistry</i> , 1998 , 273, 3963-6 | 5.4 | 957 |
| 92 | Autophagy in yeast demonstrated with proteinase-deficient mutants and conditions for its induction. <i>Journal of Cell Biology</i> , 1992 , 119, 301-11 | 7.3 | 936 |
| 91 | Two Beclin 1-binding proteins, Atg14L and Rubicon, reciprocally regulate autophagy at different stages. <i>Nature Cell Biology</i> , 2009 , 11, 385-96 | 23.4 | 894 |
| 90 | 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 |
| 89 | A subdomain of the endoplasmic reticulum forms a cradle for autophagosome formation. <i>Nature Cell Biology</i> , 2009 , 11, 1433-7 | 23.4 | 804 |
| 88 | The Atg16L complex specifies the site of LC3 lipidation for membrane biogenesis in autophagy. <i>Molecular Biology of the Cell</i> , 2008 , 19, 2092-100 | 3.5 | 759 |
| 87 | 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 |
| 86 | 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 |

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|----|---|------|-----|
| 85 | Formation process of autophagosome is traced with Apg8/Aut7p in yeast. <i>Journal of Cell Biology</i> , 1999 , 147, 435-46 | 7.3 | 722 |
| 84 | Atg9a controls dsDNA-driven dynamic translocation of STING and the innate immune response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 20842-6 | 11.5 | 560 |
| 83 | 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 |
| 82 | Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). <i>Autophagy</i> , 2021 , 17, 1-382 | 10.2 | 440 |
| 81 | 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 |
| 80 | An Atg4B mutant hampers the lipidation of LC3 paralogues and causes defects in autophagosome closure. <i>Molecular Biology of the Cell</i> , 2008 , 19, 4651-9 | 3.5 | 397 |
| 79 | Autophagy requires endoplasmic reticulum targeting of the PI3-kinase complex via Atg14L. <i>Journal of Cell Biology</i> , 2010 , 190, 511-21 | 7.3 | 345 |
| 78 | 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 |
| 77 | Characterization of H7N9 influenza A viruses isolated from humans. <i>Nature</i> , 2013 , 501, 551-5 | 50.4 | 321 |
| 76 | Autophagy sequesters damaged lysosomes to control lysosomal biogenesis and kidney injury. <i>EMBO Journal</i> , 2013 , 32, 2336-47 | 13 | 319 |
| 75 | 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 |
| 74 | Dynein-dependent movement of autophagosomes mediates efficient encounters with lysosomes. <i>Cell Structure and Function</i> , 2008 , 33, 109-22 | 2.2 | 309 |
| 73 | Chemical modulators of autophagy as biological probes and potential therapeutics. <i>Nature Chemical Biology</i> , 2011 , 7, 9-17 | 11.7 | 302 |
| 72 | Novel system for monitoring autophagy in the yeast <i>Saccharomyces cerevisiae</i> . <i>Biochemical and Biophysical Research Communications</i> , 1995 , 210, 126-32 | 3.4 | 300 |
| 71 | 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 |
| 70 | Cytoplasm-to-vacuole targeting and autophagy employ the same machinery to deliver proteins to the yeast vacuole. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 12304-8 | 11.5 | 218 |
| 69 | Apg10p, a novel protein-conjugating enzyme essential for autophagy in yeast. <i>EMBO Journal</i> , 1999 , 18, 5234-41 | 13 | 216 |
| 68 | Recruitment of the autophagic machinery to endosomes during infection is mediated by ubiquitin. <i>Journal of Cell Biology</i> , 2013 , 203, 115-28 | 7.3 | 201 |

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|----|--|------|-----|
| 67 | Monitoring autophagy in mammalian cultured cells through the dynamics of LC3. <i>Methods in Enzymology</i> , 2009 , 452, 1-12 | 1.7 | 192 |
| 66 | Yeast autophagosomes: de novo formation of a membrane structure. <i>Trends in Cell Biology</i> , 2002 , 12, 231-5 | 18.3 | 171 |
| 65 | Combinational soluble N-ethylmaleimide-sensitive factor attachment protein receptor proteins VAMP8 and Vti1b mediate fusion of antimicrobial and canonical autophagosomes with lysosomes. <i>Molecular Biology of the Cell</i> , 2010 , 21, 1001-10 | 3.5 | 167 |
| 64 | 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 |
| 63 | Modulation of local PtdIns3P levels by the PI phosphatase MTMR3 regulates constitutive autophagy. <i>Traffic</i> , 2010 , 11, 468-78 | 5.7 | 145 |
| 62 | The LC3 recruitment mechanism is separate from Atg9L1-dependent membrane formation in the autophagic response against Salmonella. <i>Molecular Biology of the Cell</i> , 2011 , 22, 2290-300 | 3.5 | 143 |
| 61 | Analyses of APG13 gene involved in autophagy in yeast, <i>Saccharomyces cerevisiae</i> . <i>Gene</i> , 1997 , 192, 207-318 | 3.8 | 136 |
| 60 | 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 |
| 59 | The late stages of autophagy: how does the end begin?. <i>Cell Death and Differentiation</i> , 2009 , 16, 984-90 | 12.7 | 130 |
| 58 | 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 |
| 57 | The quantitative Pho8Delta60 assay of nonspecific autophagy. <i>Methods in Enzymology</i> , 2008 , 451, 33-42 | 1.7 | 116 |
| 56 | <i>Porphyromonas gingivalis</i> promotes invasion of oral squamous cell carcinoma through induction of proMMP9 and its activation. <i>Cellular Microbiology</i> , 2014 , 16, 131-45 | 3.9 | 115 |
| 55 | 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 |
| 54 | Rubicon and PLEKHM1 negatively regulate the endocytic/autophagic pathway via a novel Rab7-binding domain. <i>Molecular Biology of the Cell</i> , 2010 , 21, 4162-72 | 3.5 | 103 |
| 53 | Differential involvement of Atg16L1 in Crohn disease and canonical autophagy: analysis of the organization of the Atg16L1 complex in fibroblasts. <i>Journal of Biological Chemistry</i> , 2009 , 284, 32602-9 | 5.4 | 97 |
| 52 | Toward unraveling membrane biogenesis in mammalian autophagy. <i>Current Opinion in Cell Biology</i> , 2008 , 20, 401-7 | 9 | 97 |
| 51 | Apg2p functions in autophagosome formation on the perivacuolar structure. <i>Journal of Biological Chemistry</i> , 2001 , 276, 30452-60 | 5.4 | 95 |
| 50 | Peroxisome degradation requires catalytically active sterol glucosyltransferase with a GRAM domain. <i>EMBO Journal</i> , 2003 , 22, 3231-41 | 13 | 82 |

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| 49 | The early secretory pathway contributes to autophagy in yeast. <i>Cell Structure and Function</i> , 2003 , 28, 49-54 | 2.2 | 81 |
| 48 | Atg9A trafficking through the recycling endosomes is required for autophagosome formation. <i>Journal of Cell Science</i> , 2016 , 129, 3781-3791 | 5.3 | 80 |
| 47 | An initial step of GAS-containing autophagosome-like vacuoles formation requires Rab7. <i>PLoS Pathogens</i> , 2009 , 5, e1000670 | 7.6 | 79 |
| 46 | Regulation of membrane biogenesis in autophagy via PI3P dynamics. <i>Seminars in Cell and Developmental Biology</i> , 2010 , 21, 671-6 | 7.5 | 73 |
| 45 | Dysfunction of autophagy participates in vacuole formation and cell death in cells replicating hepatitis C virus. <i>Journal of Virology</i> , 2011 , 85, 13185-94 | 6.6 | 65 |
| 44 | TRAPPIII is responsible for vesicular transport from early endosomes to Golgi, facilitating Atg9 cycling in autophagy. <i>Journal of Cell Science</i> , 2013 , 126, 4963-73 | 5.3 | 64 |
| 43 | Electron tomography reveals the endoplasmic reticulum as a membrane source for autophagosome formation. <i>Autophagy</i> , 2010 , 6, 301-3 | 10.2 | 63 |
| 42 | Regulation of Autophagy through TORC1 and mTORC1. <i>Biomolecules</i> , 2017 , 7, | 5.9 | 61 |
| 41 | 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 |
| 40 | Dynamic relocation of the TORC1-Gtr1/2-Ego1/2/3 complex is regulated by Gtr1 and Gtr2. <i>Molecular Biology of the Cell</i> , 2016 , 27, 382-96 | 3.5 | 45 |
| 39 | Autophagy in the context of the cellular membrane-trafficking system: the enigma of Atg9 vesicles. <i>Biochemical Society Transactions</i> , 2017 , 45, 1323-1331 | 5.1 | 45 |
| 38 | Reciprocal conversion of Gtr1 and Gtr2 nucleotide-binding states by Npr2-Npr3 inactivates TORC1 and induces autophagy. <i>Autophagy</i> , 2014 , 10, 1565-78 | 10.2 | 44 |
| 37 | Disease severity is associated with differential gene expression at the early and late phases of infection in nonhuman primates infected with different H5N1 highly pathogenic avian influenza viruses. <i>Journal of Virology</i> , 2014 , 88, 8981-97 | 6.6 | 38 |
| 36 | Binding Rubicon to cross the Rubicon. <i>Autophagy</i> , 2009 , 5, 876-7 | 10.2 | 35 |
| 35 | Interrelationships among Atg proteins during autophagy in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2004 , 21, 1057-65 | 3.4 | 34 |
| 34 | Molecular basis of canonical and bactericidal autophagy. <i>International Immunology</i> , 2009 , 21, 1199-204 | 4.9 | 33 |
| 33 | STEEP mediates STING ER exit and activation of signaling. <i>Nature Immunology</i> , 2020 , 21, 868-879 | 19.1 | 30 |
| 32 | Rheb localized on the Golgi membrane activates lysosome-localized mTORC1 at the Golgi-lysosome contact site. <i>Journal of Cell Science</i> , 2018 , 131, | 5.3 | 29 |

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| 31 | Atg4B(C74A) hampers autophagosome closure: a useful protein for inhibiting autophagy. <i>Autophagy</i> , 2009 , 5, 88-9 | 10.2 | 29 |
| 30 | Osteoblastic lysosome plays a central role in mineralization. <i>Science Advances</i> , 2019 , 5, eaax0672 | 14.3 | 27 |
| 29 | Gtr/Ego-independent TORC1 activation is achieved through a glutamine-sensitive interaction with Pib2 on the vacuolar membrane. <i>PLoS Genetics</i> , 2018 , 14, e1007334 | 6 | 25 |
| 28 | Viability assays to monitor yeast autophagy. <i>Methods in Enzymology</i> , 2008 , 451, 27-32 | 1.7 | 23 |
| 27 | The Ubi brothers reunited. <i>Autophagy</i> , 2008 , 4, 540-1 | 10.2 | 22 |
| 26 | The PtdIns3-phosphatase MTMR3 interacts with mTORC1 and suppresses its activity. <i>FEBS Letters</i> , 2016 , 590, 161-73 | 3.8 | 19 |
| 25 | Between canonical and antibacterial autophagy: Rab7 is required for GAS-containing autophagosome-like vacuole formation. <i>Autophagy</i> , 2010 , 6, 419-20 | 10.2 | 16 |
| 24 | Endothelial cells are intrinsically defective in xenophagy of <i>Streptococcus pyogenes</i> . <i>PLoS Pathogens</i> , 2017 , 13, e1006444 | 7.6 | 15 |
| 23 | Three-Axis Model for Atg Recruitment in Autophagy against <i>Salmonella</i> . <i>International Journal of Cell Biology</i> , 2012 , 2012, 389562 | 2.6 | 14 |
| 22 | Group A <i>Streptococcus</i> Induces LAPosomes via SLO/1 Integrin/NOX2/ROS Pathway in Endothelial Cells That Are Ineffective in Bacterial Killing and Suppress Xenophagy. <i>MBio</i> , 2019 , 10, | 7.8 | 14 |
| 21 | Vacuole-mediated selective regulation of TORC1-Sch9 signaling following oxidative stress. <i>Molecular Biology of the Cell</i> , 2018 , 29, 510-522 | 3.5 | 14 |
| 20 | Ole1, fatty acid desaturase, is required for Atg9 delivery and isolation membrane expansion during autophagy in <i>Saccharomyces cerevisiae</i> . <i>Biology Open</i> , 2017 , 6, 35-40 | 2.2 | 13 |
| 19 | Atg14L recruits PtdIns 3-kinase to the ER for autophagosome formation. <i>Autophagy</i> , 2011 , 7, 438-9 | 10.2 | 11 |
| 18 | Induction of selective autophagy in cells replicating hepatitis C virus genome. <i>Journal of General Virology</i> , 2018 , 99, 1643-1657 | 4.9 | 11 |
| 17 | Morphological analysis of autophagy. <i>Methods in Molecular Biology</i> , 2013 , 931, 449-66 | 1.4 | 9 |
| 16 | ERdj8 governs the size of autophagosomes during the formation process. <i>Journal of Cell Biology</i> , 2020 , 219, | 7.3 | 8 |
| 15 | Autophagosome formation in relation to the endoplasmic reticulum. <i>Journal of Biomedical Science</i> , 2020 , 27, 97 | 13.3 | 8 |
| 14 | Quantitative Assay of Macroautophagy Using Pho8760 Assay and GFP-Cleavage Assay in Yeast. <i>Methods in Enzymology</i> , 2017 , 588, 307-321 | 1.7 | 5 |

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| 13 | Starvation-induced autophagy via calcium-dependent TFEB dephosphorylation is suppressed by Shigyakusan. <i>PLoS ONE</i> , 2020 , 15, e0230156 | 3-7 | 3 |
| 12 | Nicotinamide Increases Intracellular NAD Content to Enhance Autophagy-Mediated Group A Streptococcal Clearance in Endothelial Cells. <i>Frontiers in Microbiology</i> , 2020 , 11, 117 | 5-7 | 3 |
| 11 | Early zygotic expression of transcription factors and signal molecules in fully dissociated embryonic cells of <i>Ciona intestinalis</i> : A microarray analysis. <i>Development Growth and Differentiation</i> , 2009 , 51, 639-55 | 3-5 | 3 |
| 10 | Vacuolar protein Tag1 and Atg1-Atg13 regulate autophagy termination during persistent starvation in. <i>Journal of Cell Science</i> , 2021 , 134, | 5-3 | 3 |
| 9 | The Yeast Vacuole: A Paradigm for Plant Cell Biologists? 2018 , 1-21 | | 1 |
| 8 | A CRISPR/Cas9-based method for seamless N-terminal protein tagging in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2021 , 38, 592-600 | 3-4 | 1 |
| 7 | Isoflurane induces Art2-Rsp5-dependent endocytosis of Bap2 in yeast. <i>FEBS Open Bio</i> , 2021 , 11, 3090-3100 | 10-9 | 0 |
| 6 | Study on Autophagy by Professor Ohsumi: Nobel Prize Originated from the Frontier. <i>Trends in the Sciences</i> , 2017 , 22, 2_13-2_17 | | 0 |
| 5 | Autophagy requires endoplasmic reticulum targeting of the PI3-kinase complex via Atg14L. <i>Journal of Experimental Medicine</i> , 2010 , 207, i24-i24 | | 16.6 |
| 4 | Starvation-induced autophagy via calcium-dependent TFEB dephosphorylation is suppressed by Shigyakusan 2020 , 15, e0230156 | | |
| 3 | Starvation-induced autophagy via calcium-dependent TFEB dephosphorylation is suppressed by Shigyakusan 2020 , 15, e0230156 | | |
| 2 | Starvation-induced autophagy via calcium-dependent TFEB dephosphorylation is suppressed by Shigyakusan 2020 , 15, e0230156 | | |
| 1 | Starvation-induced autophagy via calcium-dependent TFEB dephosphorylation is suppressed by Shigyakusan 2020 , 15, e0230156 | | |