# Hitoshi Nakatogawa

List of Publications by Year
in descending order



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|---|---|---|---|
| 65 papers | 16,041 citations | 101384 36 h-index | 114278 63 g-index |
| 71 all docs | 71 docs citations | 71 times ranked | 24581 citing authors |

| # | Article | IF | Citations |
| --- | --- | --- | --- |
| 1 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222. | 4.3 | 4,701 |
| 2 | Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544. | 4.3 | 3,122 |
| 3 | Dynamics and diversity in autophagy mechanisms: lessons from yeast. Nature Reviews Molecular Cell Biology, 2009, 10, 458-467. | 16.1 | 1,498 |
| 4 | Atg8, a Ubiquitin-like Protein Required for Autophagosome Formation, Mediates Membrane Tethering and Hemifusion. Cell, 2007, 130, 165-178. | 13.5 | 1,056 |
| 5 | The Ribosomal Exit Tunnel Functions as a Discriminating Gate. Cell, 2002, 108, 629-636. | 13.5 | 508 |
| 6 | Receptor-mediated selective autophagy degrades the endoplasmic reticulum and the nucleus. Nature, 2015, 522, 359-362. | 13.7 | 496 |
| 7 | Mechanisms governing autophagosome biogenesis. Nature Reviews Molecular Cell Biology, 2020, 21, 439-458. | 16.1 | 476 |
| 8 | Structural basis of target recognition by Atg8/LC3 during selective autophagy. Genes To Cells, 2008, 13, 1211-1218. | 0.5 | 349 |
| 9 | Atg2 mediates direct lipid transfer between membranes for autophagosome formation. Nature Structural and Molecular Biology, 2019, 26, 281-288. | 3.6 | 312 |
| 10 | Atg9 is a lipid scramblase that mediates autophagosomal membrane expansion. Nature Structural and Molecular Biology, 2020, 27, 1185-1193. | 3.6 | 253 |
| 11 | Recruitment of the autophagic machinery to endosomes during infection is mediated by ubiquitin. Journal of Cell Biology, 2013, 203, 115-128. | 2.3 | 242 |
| 12 | Two ubiquitin-like conjugation systems that mediate membrane formation during autophagy. Essays in Biochemistry, 2013, 55, 39-50. | 2.1 | 233 |
| 13 | The Atg2-Atg18 complex tethers pre-autophagosomal membranes to the endoplasmic reticulum for autophagosome formation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10363-10368. | 3.3 | 214 |
| 14 | Secretion Monitor, SecM, Undergoes Self-Translation Arrest in the Cytosol. Molecular Cell, 2001, 7, 185-192. | 4.5 | 195 |
| 15 | Atg4 recycles inappropriately lipidated Atg8 to promote autophagosome biogenesis. Autophagy, 2012, 8, 177-186. | 4.3 | 185 |
| 16 | Structural Basis of Atg8 Activation by a Homodimeric E1, Atg7. Molecular Cell, 2011, 44, 462-475. | 4.5 | 156 |
| 17 | Genetically Encoded but Nonpolypeptide Prolyl-tRNA Functions in the A Site for SecM-Mediated Ribosomal Stall. Molecular Cell, 2006, 22, 545-552. | 4.5 | 143 |
| 18 | Atg12â€"Atg5 conjugate enhances E2 activity of Atg3 by rearranging its catalytic site. Nature Structural and Molecular Biology, 2013, 20, 433-439. | 3.6 | 131 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Autophagy-related Protein 32 Acts as Autophagic Degron and Directly Initiates Mitophagy. Journal of Biological Chemistry, 2012, 287, 10631-10638. | 1.6 | 120 |
| 20 | Dimeric Coiled-coil Structure of Saccharomyces cerevisiae Atg16 and Its Functional Significance in Autophagy. Journal of Biological Chemistry, 2010, 285, 1508-1515. | 1.6 | 114 |
| 21 | Autophagy-related Protein 8 (Atg8) Family Interacting Motif in Atg3 Mediates the Atg3-Atg8 Interaction and Is Crucial for the Cytoplasm-to-Vacuole Targeting Pathway. Journal of Biological Chemistry, 2010, 285, 29599-29607. | 1.6 | 105 |
| 22 | Hrr25 triggers selective autophagyâ€"related pathways by phosphorylating receptor proteins. Journal of Cell Biology, 2014, 207, 91-105. | 2.3 | 101 |
| 23 | The Autophagy-related Protein Kinase Atg1 Interacts with the Ubiquitin-like Protein Atg8 via the Atg8 Family Interacting Motif to Facilitate Autophagosome Formation. Journal of Biological Chemistry, 2012, 287, 28503-28507. | 1.6 | 99 |
| 24 | COPII vesicles contribute to autophagosomal membranes. Journal of Cell Biology, 2019, 218, 1503-1510. | 2.3 | 85 |
| 25 | Translation arrest of SecM is essential for the basal and regulated expression of SecA. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12330-12335. | 3.3 | 68 |
| 26 | Control of SecA and SecM translation by protein secretion. Current Opinion in Microbiology, 2004, 7, 145-150. | 2.3 | 67 |
| 27 | Reticulophagy and nucleophagy: New findings and unsolved issues. Autophagy, 2015, 11, 2377-2378. | 4.3 | 62 |
| 28 | Noncanonical recognition and UBL loading of distinct E2s by autophagy-essential Atg7. Nature Structural and Molecular Biology, 2012, 19, 1250-1256. | 3.6 | 59 |
| 29 | Membrane Morphology Is Actively Transformed by Covalent Binding of the Protein Atg8 to PE-Lipids. PLoS ONE, 2014, 9, e115357. | 1.1 | 58 |
| 30 | Super-assembly of ER-phagy receptor Atg40 induces local ER remodeling at contacts with forming autophagosomal membranes. Nature Communications, 2020, 11, 3306. | 5.8 | 54 |
| 31 | Physiological pH and Acidic Phospholipids Contribute to Substrate Specificity in Lipidation of Atg8. Journal of Biological Chemistry, 2008, 283, 21847-21852. | 1.6 | 51 |
| 32 | Membrane perturbation by lipidated Atg8 underlies autophagosome biogenesis. Nature Structural and Molecular Biology, 2021, 28, 583-593. | 3.6 | 51 |
| 33 | Two distinct mechanisms target the autophagy-related E3 complex to the pre-autophagosomal structure. ELife, 2019, 8, . | 2.8 | 51 |
| 34 | The NMR structure of the autophagy-related protein Atg8. Journal of Biomolecular NMR, 2010, 47, 237-241. | 1.6 | 49 |
| 35 | The PP2A-like Protein Phosphatase Ppg1 and the Far Complex Cooperatively Counteract CK2-Mediated Phosphorylation of Atg32 to Inhibit Mitophagy. Cell Reports, 2018, 23, 3579-3590. | 2.9 | 48 |
| 36 | TORC1 inactivation stimulates autophagy of nucleoporin and nuclear pore complexes. Journal of Cell Biology, 2020, 219, . | 2.3 | 46 |

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|---|---|---|---|
| 37 | Phospholipid methylation controls Atg32â€mediated mitophagy and Atg8 recycling. EMBO Journal, 2015, 34, 2703-2719. | 3.5 | 39 |
| 38 | Localization of Atg3 to autophagyâ€related membranes and its enhancement by the Atg8â€family interacting motif to promote expansion of the membranes. FEBS Letters, 2015, 589, 744-749. | 1.3 | 35 |
| 39 | Lipidation-independent vacuolar functions of Atg8 rely on its noncanonical interaction with a vacuole membrane protein. ELife, 2018, 7, . | 2.8 | 34 |
| 40 | Hrr25 phosphorylates the autophagic receptor Atg34 to promote vacuolar transport of Î±â€mannosidase under nitrogen starvation conditions. FEBS Letters, 2014, 588, 3862-3869. | 1.3 | 33 |
| 41 | <scp>ER</scp> â€phagy: selective autophagy of the endoplasmic reticulum. EMBO Reports, 2022, 23, . | 2.0 | 33 |
| 42 | SecM facilitates translocase function of SecA by localizing its biosynthesis. Genes and Development, 2005, 19, 436-444. | 2.7 | 32 |
| 43 | Genetic dissection of SecA: suppressor mutations against thesecY205translocase defect. Genes To Cells, 2000, 5, 991-999. | 0.5 | 26 |
| 44 | Structural Basis for Receptor-Mediated Selective Autophagy of Aminopeptidase I Aggregates. Cell Reports, 2016, 16, 19-27. | 2.9 | 26 |
| 45 | Intraribosomal Regulation of Expression and Fate of Proteins. ChemBioChem, 2004, 5, 48-51. | 1.3 | 25 |
| 46 | Atg39 links and deforms the outer and inner nuclear membranes in selective autophagy of the nucleus. Journal of Cell Biology, 2022, 221, . | 2.3 | 25 |
| 47 | Two Independent Mechanisms Down-regulate the Intrinsic SecA ATPase Activity. Journal of Biological Chemistry, 2000, 275, 33209-33212. | 1.6 | 23 |
| 48 | SDS-PAGE Techniques to Study Ubiquitin-Like Conjugation Systems in Yeast Autophagy. Methods in Molecular Biology, 2012, 832, 519-529. | 0.4 | 19 |
| 49 | Degradation of nuclear components via different autophagy pathways. Trends in Cell Biology, 2022, 32, 574-584. | 3.6 | 17 |
| 50 | Lipidation of Atg8: How is substrate specificity determined without a canonical E3 enzyme?. Autophagy, 2008, 4, 911-913. | 4.3 | 15 |
| 51 | Characterization of a Mutant Form of SecA That Alleviates a SecY Defect at Low Temperature and Shows a Synthetic Defect with SecY Alteration at High Temperature. Journal of Biochemistry, 2000, 127, 1071-1079. | 0.9 | 11 |
| 52 | Hrr25: An emerging major player in selective autophagy regulation in<i>Saccharomyces cerevisiae</i>. Autophagy, 2015, 11, 432-433. | 4.3 | 10 |
| 53 | Pex3 confines pexophagy receptor activity of Atg36 to peroxisomes by regulating Hrr25-mediated phosphorylation and proteasomal degradation. Journal of Biological Chemistry, 2020, 295, 16292-16298. | 1.6 | 10 |
| 54 | Starved cells eat ribosomes. Nature Cell Biology, 2008, 10, 505-507. | 4.6 | 9 |

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|---|---|---|---|
| 55 | Regulated Degradation: Controlling the Stability of Autophagy Gene Transcripts. Developmental Cell, 2015, 34, 132-134. | 3.1 | 8 |
| 56 | Eating the ER and the nucleus for survival under starvation conditions. Molecular and Cellular Oncology, 2016, 3, e1073416. | 0.3 | 8 |
| 57 | Autophagic degradation of the endoplasmic reticulum. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2020, 96, 1-9. | 1.6 | 8 |
| 58 | Autophagy: Close Contact Keeps Out the Uninvited. Current Biology, 2014, 24, R560-R562. | 1.8 | 7 |
| 59 | Spoon-Feeding Ribosomes to Autophagy. Molecular Cell, 2018, 71, 197-199. | 4.5 | 7 |
| 60 | Atg8-mediated super-assembly of Atg40 induces local ER remodeling in reticulophagy. Autophagy, 2020, 16, 2299-2300. | 4.3 | 5 |
| 61 | <i>N</i>-glycosylation of Rim21 at an Unconventional Site Fine-tunes Its Behavior in the Plasma Membrane. Cell Structure and Function, 2020, 45, 1-8. | 0.5 | 3 |
| 62 | Atg39 binding to the inner nuclear membrane triggers nuclear envelope deformation in piecemeal macronucleophagy. Autophagy, 2022, 18, 3046-3047. | 4.3 | 2 |
| 63 | Atg8ã®è§£æžã‹ã‚‰æŽ¢ã‚‹ã‚ªãƒ¼ãƒˆãƒ•ã‚¡ã‚¸ãƒ¼ã®å^†åãƒ¡ã‚«ãƒ‹ã‚ºãƒ è¬Žã«æº€ã¡ãŸè†œå‹•æ…‹è§£æ˜Žã¸ã®ç¬¬ä¸€æ©. Kagaku To Sei | [illegible] | 0 |
| 64 | ATG4 Proteases in Autophagy. , 2013, , 2138-2142. | | 0 |
| 65 | Appetite for ER/nucleus destruction. Cell Cycle, 2015, 14, 3209-3210. | 1.3 | 0 |