

Tomotake Kanki

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

14,201
citations

117625

34
h-index

123424

61
g-index

70
all docs

70
docs citations

70
times ranked

25038
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222. | 9.1 | 4,701 |
| 2 | Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544. | 9.1 | 3,122 |
| 3 | Guidelines for the use and interpretation of assays for monitoring autophagy (4th) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 662</i> | 9.1 | 1,430 |
| 4 | Atg32 Is a Mitochondrial Protein that Confers Selectivity during Mitophagy. <i>Developmental Cell</i> , 2009, 17, 98-109. | 7.0 | 709 |
| 5 | Leigh Syndrome with Nephropathy and CoQ10 Deficiency Due to decaprenyl diphosphate synthase subunit 2 (PDSS2) Mutations. <i>American Journal of Human Genetics</i> , 2006, 79, 1125-1129. | 6.2 | 359 |
| 6 | Human mitochondrial DNA is packaged with TFAM. <i>Nucleic Acids Research</i> , 2003, 31, 1640-1645. | 14.5 | 321 |
| 7 | Mitophagy in Yeast Occurs through a Selective Mechanism. <i>Journal of Biological Chemistry</i> , 2008, 283, 32386-32393. | 3.4 | 296 |
| 8 | Architectural Role of Mitochondrial Transcription Factor A in Maintenance of Human Mitochondrial DNA. <i>Molecular and Cellular Biology</i> , 2004, 24, 9823-9834. | 2.3 | 267 |
| 9 | A Genomic Screen for Yeast Mutants Defective in Selective Mitochondria Autophagy. <i>Molecular Biology of the Cell</i> , 2009, 20, 4730-4738. | 2.1 | 229 |
| 10 | Mitophagy Plays an Essential Role in Reducing Mitochondrial Production of Reactive Oxygen Species and Mutation of Mitochondrial DNA by Maintaining Mitochondrial Quantity and Quality in Yeast. <i>Journal of Biological Chemistry</i> , 2012, 287, 3265-3272. | 3.4 | 229 |
| 11 | Phosphorylation of Serine 114 on Atg32 mediates mitophagy. <i>Molecular Biology of the Cell</i> , 2011, 22, 3206-3217. | 2.1 | 199 |
| 12 | Mitochondrial division occurs concurrently with autophagosome formation but independently of Drp1 during mitophagy. <i>Journal of Cell Biology</i> , 2016, 215, 649-665. | 5.2 | 193 |
| 13 | Mitophagy is primarily due to alternative autophagy and requires the MAPK1 and MAPK14 signaling pathways. <i>Autophagy</i> , 2015, 11, 332-343. | 9.1 | 168 |
| 14 | Reverse of Age-Dependent Memory Impairment and Mitochondrial DNA Damage in Microglia by an Overexpression of Human Mitochondrial Transcription Factor A in Mice. <i>Journal of Neuroscience</i> , 2008, 28, 8624-8634. | 3.6 | 153 |
| 15 | The molecular mechanism of mitochondria autophagy in yeast. <i>Molecular Microbiology</i> , 2010, 75, 795-800. | 2.5 | 130 |
| 16 | p32/gC1qR is indispensable for fetal development and mitochondrial translation: importance of its RNA-binding ability. <i>Nucleic Acids Research</i> , 2012, 40, 9717-9737. | 14.5 | 130 |
| 17 | Casein kinase 2 is essential for mitophagy. <i>EMBO Reports</i> , 2013, 14, 788-794. | 4.5 | 128 |
| 18 | Monitoring mitophagy in yeast: The Om45-GFP processing assay. <i>Autophagy</i> , 2009, 5, 1186-1189. | 9.1 | 81 |

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|----|--|-----|-----------|
| 19 | Mitophagy in yeast: Molecular mechanisms and physiological role. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 2756-2765. | 4.1 | 77 |
| 20 | PDIP38 Associates with Proteins Constituting the Mitochondrial DNA Nucleoid. <i>Journal of Biochemistry</i> , 2005, 138, 673-678. | 1.7 | 71 |
| 21 | Mitochondria Autophagy in Yeast. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 1989-2001. | 5.4 | 66 |
| 22 | Mitochondrial Nucleoid and Transcription Factor A. <i>Annals of the New York Academy of Sciences</i> , 2004, 1011, 61-68. | 3.8 | 63 |
| 23 | The C-terminal Tail of Mitochondrial Transcription Factor A Markedly Strengthens its General Binding to DNA. <i>Journal of Biochemistry</i> , 2007, 141, 201-211. | 1.7 | 62 |
| 24 | Nix: A receptor protein for mitophagy in mammals. <i>Autophagy</i> , 2010, 6, 433-435. | 9.1 | 60 |
| 25 | How autophagy eats large mitochondria: Autophagosome formation coupled with mitochondrial fragmentation. <i>Autophagy</i> , 2017, 13, 980-981. | 9.1 | 58 |
| 26 | Membrane perturbation by lipidated Atg8 underlies autophagosome biogenesis. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 583-593. | 8.2 | 51 |
| 27 | A genomic screen for yeast mutants defective in mitophagy. <i>Autophagy</i> , 2010, 6, 278-280. | 9.1 | 49 |
| 28 | The PP2A-like Protein Phosphatase Ppg1 and the Far Complex Cooperatively Counteract CK2-Mediated Phosphorylation of Atg32 to Inhibit Mitophagy. <i>Cell Reports</i> , 2018, 23, 3579-3590. | 6.4 | 48 |
| 29 | The Physiological Role of Mitophagy: New Insights into Phosphorylation Events. <i>International Journal of Cell Biology</i> , 2012, 2012, 1-8. | 2.5 | 46 |
| 30 | Localization of mRNAs encoding human mitochondrial oxidative phosphorylation proteins. <i>Mitochondrion</i> , 2012, 12, 391-398. | 3.4 | 43 |
| 31 | The Tenth Membrane Region of Band 3 Is Initially Exposed to the Luminal Side of the Endoplasmic Reticulum and Then Integrated into a Partially Folded Band 3 Intermediate. <i>Biochemistry</i> , 2002, 41, 13973-13981. | 2.5 | 42 |
| 32 | The Tor and Sin3-Rpd3 complex regulate expression of the mitophagy receptor protein Atg32. <i>Journal of Cell Science</i> , 2014, 127, 3184-96. | 2.0 | 40 |
| 33 | FKBP8 LIRL-dependent mitochondrial fragmentation facilitates mitophagy under stress conditions. <i>FASEB Journal</i> , 2020, 34, 2944-2957. | 0.5 | 38 |
| 34 | Atg32 Is a tag for mitochondria degradation in yeast. <i>Autophagy</i> , 2009, 5, 1201-1202. | 9.1 | 37 |
| 35 | Ribonucleoprotein Y-box-binding protein-1 regulates mitochondrial oxidative phosphorylation (OXPHOS) protein expression after serum stimulation through binding to OXPHOS mRNA. <i>Biochemical Journal</i> , 2012, 443, 573-584. | 3.7 | 35 |
| 36 | Mechanisms and Physiological Roles of Mitophagy in Yeast. <i>Molecules and Cells</i> , 2018, 41, 35-44. | 2.6 | 34 |

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|----|--|------|-----------|
| 37 | Atg43 tethers isolation membranes to mitochondria to promote starvation-induced mitophagy in fission yeast. <i>ELife</i> , 2020, 9, . | 6.0 | 32 |
| 38 | Mitochondrial Nucleoid and Transcription Factor A. , 2004, 1011, 61-68. | | 30 |
| 39 | Gemcitabine induces Parkin-independent mitophagy through mitochondrial-resident E3 ligase MUL1-mediated stabilization of PINK1. <i>Scientific Reports</i> , 2020, 10, 1465. | 3.3 | 28 |
| 40 | Protein instability and functional defects caused by mutations of dihydro-oroate dehydrogenase in Miller syndrome patients. <i>Bioscience Reports</i> , 2012, 32, 631-639. | 2.4 | 27 |
| 41 | The N-terminal Region of the Transmembrane Domain of Human Erythrocyte Band 3. <i>Journal of Biological Chemistry</i> , 2003, 278, 5564-5573. | 3.4 | 24 |
| 42 | Mitochondrial abnormalities drive cell death in Wolfram syndrome 2. <i>Cell Research</i> , 2009, 19, 922-923. | 12.0 | 23 |
| 43 | Constitutive Activation of PINK1 Protein Leads to Proteasome-mediated and Non-apoptotic Cell Death Independently of Mitochondrial Autophagy. <i>Journal of Biological Chemistry</i> , 2016, 291, 16162-16174. | 3.4 | 23 |
| 44 | MITOL promotes cell survival by degrading Parkin during mitophagy. <i>EMBO Reports</i> , 2021, 22, e49097. | 4.5 | 22 |
| 45 | Tripartite suppression of fission yeast TORC1 signaling by the GATOR1-Sea3 complex, the TSC complex, and Gcn2 kinase. <i>ELife</i> , 2021, 10, . | 6.0 | 22 |
| 46 | Effects of overexpression of mitochondrial transcription factor A on lifespan and oxidative stress response in <i>Drosophila melanogaster</i> . <i>Biochemical and Biophysical Research Communications</i> , 2013, 430, 717-721. | 2.1 | 20 |
| 47 | Glaucoma-Associated Mutations in the Optineurin Gene Have Limited Impact on Parkin-Dependent Mitophagy. , 2019, 60, 3625. | | 20 |
| 48 | Regulatory Mechanisms of Mitochondrial Autophagy: Lessons From Yeast. <i>Frontiers in Plant Science</i> , 2019, 10, 1479. | 3.6 | 19 |
| 49 | Cdc14 Phosphatase Promotes TORC1-Regulated Autophagy in Yeast. <i>Journal of Molecular Biology</i> , 2018, 430, 1671-1684. | 4.2 | 15 |
| 50 | Mitophagy reporter mouse analysis reveals increased mitophagy activity in disuse-induced muscle atrophy. <i>Journal of Cellular Physiology</i> , 2021, 236, 7612-7624. | 4.1 | 15 |
| 51 | <i>Fis1</i> ablation in the male germline disrupts mitochondrial morphology and mitophagy, and arrests spermatid maturation. <i>Development (Cambridge)</i> , 2021, 148, . | 2.5 | 15 |
| 52 | Atg43, a novel autophagy-related protein, serves as a mitophagy receptor to bridge mitochondria with phagophores in fission yeast. <i>Autophagy</i> , 2021, 17, 826-827. | 9.1 | 14 |
| 53 | Association and dissociation between the mitochondrial Far complex and Atg32 regulate mitophagy. <i>ELife</i> , 2020, 9, . | 6.0 | 14 |
| 54 | Mutation and functional analysis of <i>ABCC2</i> /multidrug resistance protein 2 in a Japanese patient with <i>Dubin-Johnson syndrome</i> . <i>Hepatology Research</i> , 2013, 43, 569-575. | 3.4 | 13 |

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|----|--|-----|-----------|
| 55 | Mitophagy in Yeast: Molecular Mechanism and Regulation. <i>Cells</i> , 2021, 10, 3569. | 4.1 | 13 |
| 56 | The optineurin/TIA1 pathway inhibits aberrant stress granule formation and reduces ubiquitinated TDP-43. <i>iScience</i> , 2021, 24, 102733. | 4.1 | 12 |
| 57 | Diffusion-weighted images and vasogenic edema in eclampsia ¹ . <i>Obstetrics and Gynecology</i> , 1999, 93, 821-823. | 2.4 | 10 |
| 58 | Detection of Hypoxia-Induced and Iron Depletion-Induced Mitophagy in Mammalian Cells. <i>Methods in Molecular Biology</i> , 2017, 1759, 141-149. | 0.9 | 6 |
| 59 | Detection of Iron Depletion- and Hypoxia-Induced Mitophagy in Mammalian Cells. <i>Methods in Molecular Biology</i> , 2018, 1782, 315-324. | 0.9 | 5 |
| 60 | Mitophagy regulation mediated by the Far complex in yeast. <i>Autophagy</i> , 2021, 17, 1042-1043. | 9.1 | 5 |
| 61 | Assays for Autophagy II: Mitochondrial Autophagy. <i>Methods in Molecular Biology</i> , 2014, 1163, 165-173. | 0.9 | 3 |
| 62 | Atg32 Confers Selective Mitochondrial Sequestration as a Cargo for Autophagy. , 2014, , 163-173. | | 2 |
| 63 | PP2A-like protein phosphatase Ppg1: an emerging negative regulator of mitophagy in yeast. <i>Autophagy</i> , 2018, 14, 2171-2172. | 9.1 | 2 |
| 64 | Mitophagy in Yeast: A Screen of Mitophagy-Deficient Mutants. <i>Methods in Molecular Biology</i> , 2017, 1759, 95-104. | 0.9 | 1 |
| 65 | Molecular mechanism and physiological functions of mitophagy in yeast. <i>Plant Morphology</i> , 2018, 30, 31-36. | 0.1 | 0 |
| 66 | Mitophagy in Starvation. , 2017, , 1-19. | | 0 |
| 67 | Mitophagy in Starvation. , 2019, , 2083-2101. | | 0 |