

Sovan Sarkar

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

20,086
citations

66343
42
h-index

118850
62
g-index

66
all docs

66
docs citations

66
times ranked

31851
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222. | 9.1 | 4,701 |
| 2 | Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544. | 9.1 | 3,122 |
| 3 | Regulation of Mammalian Autophagy in Physiology and Pathophysiology. Physiological Reviews, 2010, 90, 1383-1435. | 28.8 | 1,557 |
| 4 | Trehalose, a Novel mTOR-independent Autophagy Enhancer, Accelerates the Clearance of Mutant Huntingtin and \pm -Synuclein. Journal of Biological Chemistry, 2007, 282, 5641-5652. | 3.4 | 971 |
| 5 | Lithium induces autophagy by inhibiting inositol monophosphatase. Journal of Cell Biology, 2005, 170, 1101-1111. | 5.2 | 868 |
| 6 | Novel targets for Huntington's disease in an mTOR-independent autophagy pathway. Nature Chemical Biology, 2008, 4, 295-305. | 8.0 | 739 |
| 7 | Lysosomal positioning coordinates cellular nutrient responses. Nature Cell Biology, 2011, 13, 453-460. | 10.3 | 726 |
| 8 | Efficiency of siRNA delivery by lipid nanoparticles is limited by endocytic recycling. Nature Biotechnology, 2013, 31, 653-658. | 17.5 | 660 |
| 9 | Small molecules enhance autophagy and reduce toxicity in Huntington's disease models. Nature Chemical Biology, 2007, 3, 331-338. | 8.0 | 572 |
| 10 | In search of an "autophagometer". Autophagy, 2009, 5, 585-589. | 9.1 | 503 |
| 11 | Complex Inhibitory Effects of Nitric Oxide on Autophagy. Molecular Cell, 2011, 43, 19-32. | 9.7 | 340 |
| 12 | A rational mechanism for combination treatment of Huntington's disease using lithium and rapamycin. Human Molecular Genetics, 2008, 17, 170-178. | 2.9 | 312 |
| 13 | Regulation of autophagy by mTOR-dependent and mTOR-independent pathways: autophagy dysfunction in neurodegenerative diseases and therapeutic application of autophagy enhancers. Biochemical Society Transactions, 2013, 41, 1103-1130. | 3.4 | 309 |
| 14 | Rab5 modulates aggregation and toxicity of mutant huntingtin through macroautophagy in cell and fly models of Huntington disease. Journal of Cell Science, 2008, 121, 1649-1660. | 2.0 | 284 |
| 15 | Hydrophilic protein associated with desiccation tolerance exhibits broad protein stabilization function. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18073-18078. | 7.1 | 276 |
| 16 | Aggregate-Prone Proteins Are Cleared from the Cytosol by Autophagy: Therapeutic Implications. Current Topics in Developmental Biology, 2006, 76, 89-101. | 2.2 | 262 |
| 17 | Impaired Autophagy in the Lipid-Storage Disorder Niemann-Pick Type C1 Disease. Cell Reports, 2013, 5, 1302-1315. | 6.4 | 232 |
| 18 | Trehalose reduces aggregate formation and delays pathology in a transgenic mouse model of oculopharyngeal muscular dystrophy. Human Molecular Genetics, 2006, 15, 23-31. | 2.9 | 191 |

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|----|---|------|-----------|
| 19 | Autophagy, lipophagy and lysosomal lipid storage disorders. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 269-284. | 2.4 | 189 |
| 20 | Selective Autophagy and Xenophagy in Infection and Disease. <i>Frontiers in Cell and Developmental Biology</i> , 2018, 6, 147. | 3.7 | 185 |
| 21 | Chemical Inducers of Autophagy That Enhance the Clearance of Mutant Proteins in Neurodegenerative Diseases. <i>Journal of Biological Chemistry</i> , 2010, 285, 11061-11067. | 3.4 | 181 |
| 22 | Genetic and Chemical Correction of Cholesterol Accumulation and Impaired Autophagy in Hepatic and Neural Cells Derived from Niemann-Pick Type C Patient-Specific iPS Cells. <i>Stem Cell Reports</i> , 2014, 2, 866-880. | 4.8 | 180 |
| 23 | Huntingtonâ€™s disease: degradation of mutant huntingtin by autophagy. <i>FEBS Journal</i> , 2008, 275, 4263-4270. | 4.7 | 177 |
| 24 | Laforin, the most common protein mutated in Lafora disease, regulates autophagy. <i>Human Molecular Genetics</i> , 2010, 19, 2867-2876. | 2.9 | 170 |
| 25 | Mammalian macroautophagy at a glance. <i>Journal of Cell Science</i> , 2009, 122, 1707-1711. | 2.0 | 163 |
| 26 | Inositol and IP3 Levels Regulate Autophagyâ€™ Biology and Therapeutic Speculations. <i>Autophagy</i> , 2006, 2, 132-134. | 9.1 | 151 |
| 27 | Small Molecule Enhancers of Rapamycin-Induced TOR Inhibition Promote Autophagy, Reduce Toxicity in Huntingtonâ€™s Disease Models and Enhance Killing of Mycobacteria by Macrophages. <i>Autophagy</i> , 2007, 3, 620-622. | 9.1 | 150 |
| 28 | Direct Reprogramming of Fibroblasts into Embryonic Sertoli-like Cells by Defined Factors. <i>Cell Stem Cell</i> , 2012, 11, 373-386. | 11.1 | 147 |
| 29 | Control of TSC2-Rheb signaling axis by arginine regulates mTORC1 activity. <i>ELife</i> , 2016, 5, . | 6.0 | 147 |
| 30 | Small molecule enhancers of autophagy for neurodegenerative diseases. <i>Molecular BioSystems</i> , 2008, 4, 895. | 2.9 | 146 |
| 31 | Deletion of the Huntingtin Polyglutamine Stretch Enhances Neuronal Autophagy and Longevity in Mice. <i>PLoS Genetics</i> , 2010, 6, e1000838. | 3.5 | 140 |
| 32 | Dysregulation of autophagy as a common mechanism in lysosomal storage diseases. <i>Essays in Biochemistry</i> , 2017, 61, 733-749. | 4.7 | 138 |
| 33 | The Developmental Potential of iPSCs Is Greatly Influenced by Reprogramming Factor Selection. <i>Cell Stem Cell</i> , 2014, 15, 295-309. | 11.1 | 137 |
| 34 | Antioxidants can inhibit basal autophagy and enhance neurodegeneration in models of polyglutamine disease. <i>Human Molecular Genetics</i> , 2010, 19, 3413-3429. | 2.9 | 135 |
| 35 | Resistance exercise initiates mechanistic target of rapamycin (mTOR) translocation and protein complex co-localisation in human skeletal muscle. <i>Scientific Reports</i> , 2017, 7, 5028. | 3.3 | 86 |
| 36 | Chapter 5 Autophagic Clearance of Aggregateâ€Prone Proteins Associated with Neurodegeneration. <i>Methods in Enzymology</i> , 2009, 453, 83-110. | 1.0 | 81 |

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|----|---|------|-----------|
| 37 | Amino acids and autophagy: cross-talk and co-operation to control cellular homeostasis. Amino Acids, 2015, 47, 2065-2088. | 2.7 | 80 |
| 38 | Methodological considerations for assessing autophagy modulators: A study with calcium phosphate precipitates. Autophagy, 2009, 5, 307-313. | 9.1 | 67 |
| 39 | Direct Lineage Conversion of Adult Mouse Liver Cells and B Lymphocytes to Neural Stem Cells. Stem Cell Reports, 2014, 3, 948-956. | 4.8 | 57 |
| 40 | Small-molecule enhancers of autophagy modulate cellular disease phenotypes suggested by human genetics. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4281-7. | 7.1 | 56 |
| 41 | The ubiquitin proteasome system in Huntington's disease and the spinocerebellar ataxias. BMC Biochemistry, 2007, 8, S2. | 4.4 | 47 |
| 42 | Clearance of Mutant Aggregate-Prone Proteins by Autophagy. Methods in Molecular Biology, 2008, 445, 195-211. | 0.9 | 44 |
| 43 | Wild-type PABPN1 is anti-apoptotic and reduces toxicity of the oculopharyngeal muscular dystrophy mutation. Human Molecular Genetics, 2008, 17, 1097-1108. | 2.9 | 41 |
| 44 | Cystamine Suppresses Polyalanine Toxicity in a Mouse Model of Oculopharyngeal Muscular Dystrophy. Science Translational Medicine, 2010, 2, 34ra40. | 12.4 | 40 |
| 45 | Trehalose limits opportunistic mycobacterial survival during HIV co-infection by reversing HIV-mediated autophagy block. Autophagy, 2021, 17, 476-495. | 9.1 | 39 |
| 46 | Chemical Screening Approaches Enabling Drug Discovery of Autophagy Modulators for Biomedical Applications in Human Diseases. Frontiers in Cell and Developmental Biology, 2019, 7, 38. | 3.7 | 37 |
| 47 | Chemical screening platforms for autophagy drug discovery to identify therapeutic candidates for Huntington's disease and other neurodegenerative disorders. Drug Discovery Today: Technologies, 2013, 10, e137-e144. | 4.0 | 36 |
| 48 | PEG-lipid micelles enable cholesterol efflux in Niemann-Pick Type C1 disease-based lysosomal storage disorder. Scientific Reports, 2016, 6, 31750. | 3.3 | 33 |
| 49 | Impaired autophagy in Lafora disease. Autophagy, 2010, 6, 991-993. | 9.1 | 30 |
| 50 | Autophagy in Rare (NonLysosomal) Neurodegenerative Diseases. Journal of Molecular Biology, 2020, 432, 2735-2753. | 4.2 | 23 |
| 51 | Discovery of pan autophagy inhibitors through a high-throughput screen highlights macroautophagy as an evolutionarily conserved process across 3 eukaryotic kingdoms. Autophagy, 2017, 13, 1556-1572. | 9.1 | 22 |
| 52 | Biomedical Implications of Autophagy in Macromolecule Storage Disorders. Frontiers in Cell and Developmental Biology, 2019, 7, 179. | 3.7 | 22 |
| 53 | Restarting stalled autophagy a potential therapeutic approach for the lipid storage disorder, Niemann-Pick type C1 disease. Autophagy, 2014, 10, 1137-1140. | 9.1 | 18 |
| 54 | Human Induced Pluripotent Stem Cell Models of Neurodegenerative Disorders for Studying the Biomedical Implications of Autophagy. Journal of Molecular Biology, 2020, 432, 2754-2798. | 4.2 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | In Vitro Screening Platforms for Identifying Autophagy Modulators in Mammalian Cells. Methods in Molecular Biology, 2019, 1880, 389-428. | 0.9 | 14 |
| 56 | Autophagy modulator scoring system: a user-friendly tool for quantitative analysis of methodological integrity of chemical autophagy modulator studies. Autophagy, 2020, 16, 195-202. | 9.1 | 14 |
| 57 | The roles of the ubiquitin-proteasome and autophagy-lysosome pathways in Huntington's disease and related conditions. Clinical Neuroscience Research, 2003, 3, 141-148. | 0.8 | 10 |
| 58 | Autophagy Dysfunction as a Phenotypic Readout in hiPSC-Derived Neuronal Cell Models of Neurodegenerative Diseases. Methods in Molecular Biology, 2021, , 103-136. | 0.9 | 4 |
| 59 | Autophagy in Neurodegenerative Diseases. Journal of Molecular Biology, 2020, 432, 2445-2448. | 4.2 | 2 |
| 60 | Oxygen Consumption Evaluation: An Important Indicator of Metabolic State, , and Cell Fate Along. Methods in Molecular Biology, 2021, 2240, 207-230. | 0.9 | 2 |
| 61 | Analysis of Mitochondrial Dysfunction by Microplate Reader in hiPSC-Derived Neuronal Cell Models of Neurodegenerative Disorders. Methods in Molecular Biology, 2022, , 1-21. | 0.9 | 2 |
| 62 | Editorial: Autophagy: From Big Data to Physiological Significance. Frontiers in Cell and Developmental Biology, 2020, 7, 376. | 3.7 | 1 |
| 63 | Autophagy researchers. Autophagy, 2014, 10, 552-555. | 9.1 | 0 |