

# Anjon Audhya

## List of Publications by Year in descending order

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82  
papers

5,662  
citations

71102

41  
h-index

85541

71  
g-index

87  
all docs

87  
docs citations

87  
times ranked

7212  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | The ESCRT machinery directs quality control over inner nuclear membrane architecture. Cell Reports, 2022, 38, 110263.  | 6.4  | 9         |
| 2  | Acetyl-CoA flux from the cytosol to the ER regulates engagement and quality of the secretory pathway. Scientific Reports, 2021, 11, 2013.  | 3.3  | 16        |
| 3  | Turbinmicin inhibits Candida biofilm growth by disrupting fungal vesicle-mediated trafficking. Journal of Clinical Investigation, 2021, 131, .   | 8.2  | 29        |
| 4  | Protein-induced membrane curvature in coarse-grained simulations. Biophysical Journal, 2021, 120, 3211-3221.   | 0.5  | 16        |
| 5  | A marine microbiome antifungal targets urgent-threat drug-resistant fungi. Science, 2020, 370, 974-978.  | 12.6 | 102       |
| 6  | Molecular Simulation of Mechanical Properties and Membrane Activities of the ESCRT-III Complexes. Biophysical Journal, 2020, 118, 1333-1343.   | 0.5  | 14        |
| 7  | Regulated lipid synthesis and LEM2/CHMP7 jointly control nuclear envelope closure. Journal of Cell Biology, 2020, 219, .   | 5.2  | 46        |
| 8  | COPII-mediated trafficking at the ER/ERGIC interface. Traffic, 2019, 20, 491-503.  | 2.7  | 89        |
| 9  | Growth factor stimulation promotes multivesicular endosome biogenesis by prolonging recruitment of the late-acting ESCRT machinery. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6858-6867. | 7.1  | 20        |
| 10 | Mad1 destabilizes p53 by preventing PML from sequestering MDM2. Nature Communications, 2019, 10, 1540.   | 12.8 | 22        |
| 11 | Biochemical Approaches to Studying Caenorhabditis elegans ESCRT Functions In Vitro. Methods in Molecular Biology, 2019, 1998, 189-202.   | 0.9  | 0         |
| 12 | Dynamic Glycosylation Governs the Vertebrate COPII Protein Trafficking Pathway. Biochemistry, 2018, 57, 91-107.  | 2.5  | 41        |
| 13 | ESCRT-dependent cargo sorting at multivesicular endosomes. Seminars in Cell and Developmental Biology, 2018, 74, 4-10.   | 5.0  | 116       |
| 14 | Mutations in GFAP Disrupt the Distribution and Function of Organelles in Human Astrocytes. Cell Reports, 2018, 25, 947-958.e4.   | 6.4  | 45        |
| 15 | Pathogenic TFG Mutations Underlying Hereditary Spastic Paraplegia Impair Secretory Protein Trafficking and Axon Fasciculation. Cell Reports, 2018, 24, 2248-2260.  | 6.4  | 24        |
| 16 | A simple supported tubulated bilayer system for evaluating protein-mediated membrane remodeling. Chemistry and Physics of Lipids, 2018, 215, 18-28.  | 3.2  | 6         |
| 17 | Supported Tubulated Bilayers: A Novel System for Evaluating Protein-Mediated Membrane Remodeling. Biophysical Journal, 2018, 114, 612a.  | 0.5  | 0         |
| 18 | Membrane Transport at an Organelle Interface in the Early Secretory Pathway: Take Your Coat Off and Stay a While. BioEssays, 2018, 40, e1800004.   | 2.5  | 27        |

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|----|--|------|-----------|
| 19 | Membrane remodeling during embryonic abscission in <i>Caenorhabditis elegans</i> . Journal of Cell Biology, 2017, 216, 1277-1286.  | 5.2  | 44        |
| 20 | TFG facilitates outer coat disassembly on COPII transport carriers to promote tethering and fusion with ER-Golgi intermediate compartments. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7707-E7716. | 7.1  | 65        |
| 21 | Ist1 regulates ESCRT-III assembly and function during multivesicular endosome biogenesis in <i>Caenorhabditis elegans</i> embryos. Nature Communications, 2017, 8, 1439.   | 12.8 | 38        |
| 22 | Hereditary spastic paraplegias: identification of a novel SPG57 variant affecting TFG oligomerization and description of HSP subtypes in Sudan. European Journal of Human Genetics, 2017, 25, 100-110.   | 2.8  | 28        |
| 23 | The Noncanonical Role of ULK/ATG1 in ER-to-Golgi Trafficking Is Essential for Cellular Homeostasis. Molecular Cell, 2016, 62, 491-506.   | 9.7  | 148       |
| 24 | Eps15 membrane-binding and -bending activity acts redundantly with Fcho1 during clathrin-mediated endocytosis. Molecular Biology of the Cell, 2016, 27, 2675-2687.   | 2.1  | 20        |
| 25 | Sar1 GTPase Activity Is Regulated by Membrane Curvature. Journal of Biological Chemistry, 2016, 291, 1014-1027.  | 3.4  | 51        |
| 26 | Burning cellular bridges: Two pathways to the big breakup. Journal of Cell Biology, 2016, 212, 491-493.  | 5.2  | 1         |
| 27 | Phosphoregulation of the <i>C. elegans</i> cadherin-catenin complex. Biochemical Journal, 2015, 472, 339-352.  | 3.7  | 15        |
| 28 | Quantification of Cellular NEMO Content and Its Impact on NF- $\kappa$ B Activation by Genotoxic Stress. PLoS ONE, 2015, 10, e0116374.   | 2.5  | 6         |
| 29 | Necrotic Cells Actively Attract Phagocytes through the Collaborative Action of Two Distinct PS-Exposure Mechanisms. PLoS Genetics, 2015, 11, e1005285.   | 3.5  | 37        |
| 30 | Kv1.3 contains an alternative C-terminal ER exit motif and is recruited into COPII vesicles by Sec24a. BMC Biochemistry, 2015, 16, 16.   | 4.4  | 18        |
| 31 | TFG clusters COPII-coated transport carriers and promotes early secretory pathway organization. EMBO Journal, 2015, 34, 811-827.   | 7.8  | 92        |
| 32 | Hrs and STAM Function Synergistically to Bind Ubiquitin-Modified Cargoes In Vitro. Biophysical Journal, 2015, 108, 76-84.  | 0.5  | 20        |
| 33 | The VPS-20 subunit of the endosomal sorting complex ESCRT-III exhibits an open conformation in the absence of upstream activation. Biochemical Journal, 2015, 466, 625-637.  | 3.7  | 20        |
| 34 | Simvastatin attenuates rhinovirus-induced interferon and CXCL10 secretion from monocytic cells in vitro. Journal of Leukocyte Biology, 2014, 95, 951-959.  | 3.3  | 18        |
| 35 | Spatial control of phospholipid flux restricts endoplasmic reticulum sheet formation to allow nuclear envelope breakdown. Genes and Development, 2014, 28, 121-126.  | 5.9  | 75        |
| 36 | The ESCRT machinery: From the plasma membrane to endosomes and back again. Critical Reviews in Biochemistry and Molecular Biology, 2014, 49, 242-261.  | 5.2  | 115       |

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|----|--|------|-----------|
| 37 | A Golgi-Localized Pool of the Mitotic Checkpoint Component Mad1 Controls Integrin Secretion and Cell Migration. <i>Current Biology</i> , 2014, 24, 2687-2692.  | 3.9  | 20        |
| 38 | Structural analysis and modeling reveals new mechanisms governing ESCRT-III spiral filament assembly. <i>Journal of Cell Biology</i> , 2014, 206, 763-777.   | 5.2  | 115       |
| 39 | In vivo imaging of <i>C. elegans</i> endocytosis. <i>Methods</i> , 2014, 68, 518-528.  | 3.8  | 19        |
| 40 | SORCS1 is necessary for normal insulin secretory granule biogenesis in metabolically stressed $\beta^2$ cells. <i>Journal of Clinical Investigation</i> , 2014, 124, 4240-4256.  | 8.2  | 53        |
| 41 | Worming Our Way In and Out of the <i>Caenorhabditis elegans</i> Germline and Developing Embryo. <i>Traffic</i> , 2013, 14, 471-478.  | 2.7  | 8         |
| 42 | Regulation of ubiquitin-dependent cargo sorting by multiple endocytic adaptors at the plasma membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11857-11862.                    | 7.1  | 57        |
| 43 | The midbody ring scaffolds the abscission machinery in the absence of midbody microtubules. <i>Journal of Cell Biology</i> , 2013, 203, 505-520.   | 5.2  | 71        |
| 44 | Inhibition of TFG function causes hereditary axon degeneration by impairing endoplasmic reticulum structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5091-5096.                | 7.1  | 90        |
| 45 | The cholesterol-lowering drug, simvastatin, attenuates rhinovirus-induced IP $\beta$ 10 release from human monocytic cells. <i>FASEB Journal</i> , 2013, 27, 846.1.  | 0.5  | 0         |
| 46 | The dual PH domain protein Opy1 functions as a sensor and modulator of PtdIns(4,5)P $_2$ synthesis. <i>EMBO Journal</i> , 2012, 31, 2882-2894.   | 7.8  | 20        |
| 47 | Up-regulation of the mitotic checkpoint component Mad1 causes chromosomal instability and resistance to microtubule poisons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E2205-14. | 7.1  | 75        |
| 48 | Roles of Acidic Phospholipids and Nucleotides in Regulating Membrane Binding and Activity of a Calcium-independent Phospholipase A2 Isoform. <i>Journal of Biological Chemistry</i> , 2012, 287, 38824-38834.                              | 3.4  | 14        |
| 49 | Vesicle formation within endosomes: An ESCRT marks the spot. <i>Communicative and Integrative Biology</i> , 2012, 5, 50-56.  | 1.4  | 29        |
| 50 | Sm protein down-regulation leads to defects in nuclear pore complex disassembly and distribution in <i>C. elegans</i> embryos. <i>Developmental Biology</i> , 2012, 365, 445-457.  | 2.0  | 19        |
| 51 | Mechanisms of ESCRT-mediated cargo sorting and degradation. <i>FASEB Journal</i> , 2012, 26, 463.1.  | 0.5  | 1         |
| 52 | Palmitoylation controls the dynamics of budding-yeast heterochromatin via the telomere-binding protein Rif1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14572-14577.              | 7.1  | 66        |
| 53 | A High-Resolution <i>C. elegans</i> Essential Gene Network Based on Phenotypic Profiling of a Complex Tissue. <i>Cell</i> , 2011, 145, 470-482.  | 28.9 | 193       |
| 54 | TFG-1 function in protein secretion and oncogenesis. <i>Nature Cell Biology</i> , 2011, 13, 550-558.   | 10.3 | 161       |

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|----|---|------|-----------|
| 55 | ESCRT-0 Assembles as a Heterotetrameric Complex on Membranes and Binds Multiple Ubiquitinated Cargoes Simultaneously. <i>Journal of Biological Chemistry</i> , 2011, 286, 9636-9645.  | 3.4  | 72        |
| 56 | Association of the Endosomal Sorting Complex ESCRT-II with the Vps20 Subunit of ESCRT-III Generates a Curvature-sensitive Complex Capable of Nucleating ESCRT-III Filaments. <i>Journal of Biological Chemistry</i> , 2011, 286, 34262-34270. | 3.4  | 80        |
| 57 | The F-BAR domain of SRGP-1 facilitates cell-cell adhesion during <i>C. elegans</i> morphogenesis. <i>Journal of Cell Biology</i> , 2010, 191, 761-769.  | 5.2  | 56        |
| 58 | EHBP-1 Functions with RAB-10 during Endocytic Recycling in <i>Caenorhabditis elegans</i> . <i>Molecular Biology of the Cell</i> , 2010, 21, 2930-2943.  | 2.1  | 90        |
| 59 | UNC-6 (netrin) orients the invasive membrane of the anchor cell in <i>C. elegans</i> . <i>Nature Cell Biology</i> , 2009, 11, 183-189.  | 10.3 | 128       |
| 60 | Early embryonic requirement for nucleoporin Nup35/NPP-19 in nuclear assembly. <i>Developmental Biology</i> , 2009, 327, 399-409.  | 2.0  | 43        |
| 61 | UNC-45 is required for NMY-2 contractile function in early embryonic polarity establishment and germline cellularization in <i>C. elegans</i> . <i>Developmental Biology</i> , 2008, 314, 287-299.  | 2.0  | 77        |
| 62 | Expression and Imaging of Fluorescent Proteins in the <i>C. elegans</i> Gonad and Early Embryo. <i>Methods in Cell Biology</i> , 2008, 85, 179-218.   | 1.1  | 64        |
| 63 | Assembly of the PtdIns 4-kinase Stt4 complex at the plasma membrane requires Ypp1 and Efr3. <i>Journal of Cell Biology</i> , 2008, 183, 1061-1074.  | 5.2  | 150       |
| 64 | Proteomics in <i>Caenorhabditis elegans</i> . <i>Briefings in Functional Genomics &amp; Proteomics</i> , 2008, 7, 205-210.  | 3.8  | 13        |
| 65 | A role for Rab5 in structuring the endoplasmic reticulum. <i>Journal of Cell Biology</i> , 2007, 178, 43-56.  | 5.2  | 171       |
| 66 | A Microtubule-Independent Role for Centrosomes and Aurora A in Nuclear Envelope Breakdown. <i>Developmental Cell</i> , 2007, 12, 515-529.   | 7.0  | 123       |
| 67 | MVB-12, a Fourth Subunit of Metazoan ESCRT-I, Functions in Receptor Downregulation. <i>PLoS ONE</i> , 2007, 2, e956.  | 2.5  | 49        |
| 68 | Dynamic Regulation of Caveolin-1 Trafficking in the Germ Line and Embryo of <i>Caenorhabditis elegans</i> . <i>Molecular Biology of the Cell</i> , 2006, 17, 3085-3094.   | 2.1  | 106       |
| 69 | The Phosphatidylinositol 4,5-Biphosphate and TORC2 Binding Proteins Slm1 and Slm2 Function in Sphingolipid Regulation. <i>Molecular and Cellular Biology</i> , 2006, 26, 5861-5875.   | 2.3  | 125       |
| 70 | Katanin controls mitotic and meiotic spindle length. <i>Journal of Cell Biology</i> , 2006, 175, 881-891.   | 5.2  | 266       |
| 71 | The ins and outs of endocytic transport. <i>Nature Cell Biology</i> , 2005, 7, 1151-1154.   | 10.3 | 3         |
| 72 | The Phosphoinositide Phosphatase Sjl2 Is Recruited to Cortical Actin Patches in the Control of Vesicle Formation and Fission during Endocytosis. <i>Molecular and Cellular Biology</i> , 2005, 25, 2910-2923.                                 | 2.3  | 72        |

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|----|---|-----|-----------|
| 73 | A complex containing the Sm protein CAR-1 and the RNA helicase CGH-1 is required for embryonic cytokinesis in <i>Caenorhabditis elegans</i> . <i>Journal of Cell Biology</i> , 2005, 171, 267-279.  | 5.2 | 222       |
| 74 | Cytoplasmic Inositol Hexakisphosphate Production Is Sufficient for Mediating the Gle1-mRNA Export Pathway. <i>Journal of Biological Chemistry</i> , 2004, 279, 51022-51032.   | 3.4 | 45        |
| 75 | Genome-wide lethality screen identifies new PI4,5P2 effectors that regulate the actin cytoskeleton. <i>EMBO Journal</i> , 2004, 23, 3747-3757.  | 7.8 | 124       |
| 76 | Genome-Wide Analysis of Membrane Targeting by <i>S. cerevisiae</i> Pleckstrin Homology Domains. <i>Molecular Cell</i> , 2004, 13, 677-688.  | 9.7 | 315       |
| 77 | Regulation of PI4,5P2 synthesis by nuclear-cytoplasmic shuttling of the Mss4 lipid kinase. <i>EMBO Journal</i> , 2003, 22, 4223-4236.   | 7.8 | 103       |
| 78 | Bro1 is an endosome-associated protein that functions in the MVB pathway in <i>Saccharomyces cerevisiae</i> . <i>Journal of Cell Science</i> , 2003, 116, 1893-1903.  | 2.0 | 189       |
| 79 | The <i>Saccharomyces cerevisiae</i> LSB6 Gene Encodes Phosphatidylinositol 4-Kinase Activity. <i>Journal of Biological Chemistry</i> , 2002, 277, 47709-47718.  | 3.4 | 75        |
| 80 | Stt4 PI 4-Kinase Localizes to the Plasma Membrane and Functions in the Pkc1-Mediated MAP Kinase Cascade. <i>Developmental Cell</i> , 2002, 2, 593-605.  | 7.0 | 236       |
| 81 | Sac1 Lipid Phosphatase and Stt4 Phosphatidylinositol 4-Kinase Regulate a Pool of Phosphatidylinositol 4-Phosphate That Functions in the Control of the Actin Cytoskeleton and Vacuole Morphology. <i>Molecular Biology of the Cell</i> , 2001, 12, 2396-2411. | 2.1 | 216       |
| 82 | Pathogenic TFG Mutations Underlying Hereditary Spastic Paraplegia Impair Secretory Protein Trafficking and Axon Fasciculation. <i>SSRN Electronic Journal</i> , 0, , .  | 0.4 | 0         |