# Catherine L Jackson

## List of Publications by Citations



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|---|---|---|---|
| 67 papers | 7,331 citations | 42 h-index | 72 g-index |
| 72 ext. papers | 8,099 ext. citations | 12.8 avg, IF | 6.03 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 67 | Coordinated polar localization of auxin efflux carrier PIN1 by GNOM ARF GEF. *Science*, **1999**, 286, 316-8 | 33.3 | 667 |
| 66 | ARF family G proteins and their regulators: roles in membrane transport, development and disease. *Nature Reviews Molecular Cell Biology*, **2011**, 12, 362-75 | 48.7 | 604 |
| 65 | A human exchange factor for ARF contains Sec7- and pleckstrin-homology domains. *Nature*, **1996**, 384, 481-4 | 50.4 | 446 |
| 64 | Turning on ARF: the Sec7 family of guanine-nucleotide-exchange factors. *Trends in Cell Biology*, **2000**, 10, 60-7 | 18.3 | 416 |
| 63 | Brefeldin A acts to stabilize an abortive ARF-GDP-Sec7 domain protein complex: involvement of specific residues of the Sec7 domain. *Molecular Cell*, **1999**, 3, 275-85 | 17.6 | 388 |
| 62 | Regulators and effectors of the ARF GTPases. *Current Opinion in Cell Biology*, **2000**, 12, 475-82 | 9 | 346 |
| 61 | Nucleotide exchange on ARF mediated by yeast Gea1 protein. *Nature*, **1996**, 384, 479-81 | 50.4 | 257 |
| 60 | INTRACELLULAR TRANSPORT. Phosphatidylserine transport by ORP/Osh proteins is driven by phosphatidylinositol 4-phosphate. *Science*, **2015**, 349, 432-6 | 33.3 | 236 |
| 59 | ATGL has a key role in lipid droplet/adiposome degradation in mammalian cells. *EMBO Reports*, **2006**, 7, 106-13 | 6.5 | 234 |
| 58 | Conjugation in Saccharomyces cerevisiae. *Annual Review of Cell Biology*, **1988**, 4, 429-57 | | 233 |
| 57 | Dynamics of GBF1, a Brefeldin A-sensitive Arf1 exchange factor at the Golgi. *Molecular Biology of the Cell*, **2005**, 16, 1213-22 | 3.5 | 190 |
| 56 | Coatomer-dependent protein delivery to lipid droplets. *Journal of Cell Science*, **2009**, 122, 1834-41 | 5.3 | 182 |
| 55 | Courtship in S. cerevisiae: both cell types choose mating partners by responding to the strongest pheromone signal. *Cell*, **1990**, 63, 1039-51 | 56.2 | 180 |
| 54 | ORP5/ORP8 localize to endoplasmic reticulum-mitochondria contacts and are involved in mitochondrial function. *EMBO Reports*, **2016**, 17, 800-10 | 6.5 | 153 |
| 53 | Synuclein and ALPS motifs are membrane curvature sensors whose contrasting chemistry mediates selective vesicle binding. *Journal of Cell Biology*, **2011**, 194, 89-103 | 7.3 | 150 |
| 52 | Hijacking components of the cellular secretory pathway for replication of poliovirus RNA. *Journal of Virology*, **2007**, 81, 558-67 | 6.6 | 140 |
| 51 | GBF1, a guanine nucleotide exchange factor for Arf, is crucial for coxsackievirus B3 RNA replication. *Journal of Virology*, **2009**, 83, 11940-9 | 6.6 | 133 |

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|---|---|---|---|
| 50 | Phylogenetic analysis of Sec7-domain-containing Arf nucleotide exchangers. *Molecular Biology of the Cell*, **2004**, 15, 1487-505 | 3.5 | 127 |
| 49 | A viral protein that blocks Arf1-mediated COP-I assembly by inhibiting the guanine nucleotide exchange factor GBF1. *Developmental Cell*, **2006**, 11, 191-201 | 10.2 | 123 |
| 48 | S. cerevisiae alpha pheromone receptors activate a novel signal transduction pathway for mating partner discrimination. *Cell*, **1991**, 67, 389-402 | 56.2 | 122 |
| 47 | A critical role of a cellular membrane traffic protein in poliovirus RNA replication. *PLoS Pathogens*, **2008**, 4, e1000216 | 7.6 | 108 |
| 46 | Regulation of a Golgi flippase by phosphoinositides and an ArfGEF. *Nature Cell Biology*, **2009**, 11, 1421-6 | 23.4 | 102 |
| 45 | Controlling small guanine-nucleotide-exchange factor function through cytoplasmic RNA intramers. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 4961-5 | 11.5 | 96 |
| 44 | Effects of picornavirus 3A Proteins on Protein Transport and GBF1-dependent COP-I recruitment. *Journal of Virology*, **2006**, 80, 11852-60 | 6.6 | 94 |
| 43 | The SNARE Sec22b has a non-fusogenic function in plasma membrane expansion. *Nature Cell Biology*, **2014**, 16, 434-44 | 23.4 | 93 |
| 42 | Lipids and Their Trafficking: An Integral Part of Cellular Organization. *Developmental Cell*, **2016**, 39, 139-153 | 10.2 | 90 |
| 41 | Mechanisms of transport through the Golgi complex. *Journal of Cell Science*, **2009**, 122, 443-52 | 5.3 | 88 |
| 40 | The Arf activator Gea2p and the P-type ATPase Drs2p interact at the Golgi in Saccharomyces cerevisiae. *Journal of Cell Science*, **2004**, 117, 711-22 | 5.3 | 86 |
| 39 | Arfs at a glance. *Journal of Cell Science*, **2014**, 127, 4103-9 | 5.3 | 81 |
| 38 | Large Arf1 guanine nucleotide exchange factors: evolution, domain structure, and roles in membrane trafficking and human disease. *Molecular Genetics and Genomics*, **2009**, 282, 329-50 | 3.1 | 70 |
| 37 | Interdigitation between Triglycerides and Lipids Modulates Surface Properties of Lipid Droplets. *Biophysical Journal*, **2017**, 112, 1417-1430 | 2.9 | 64 |
| 36 | Kinetic studies of the Arf activator Arno on model membranes in the presence of Arf effectors suggest control by a positive feedback loop. *Journal of Biological Chemistry*, **2011**, 286, 3873-83 | 5.4 | 63 |
| 35 | The ARF exchange factors Gea1p and Gea2p regulate Golgi structure and function in yeast. *Journal of Cell Science*, **2001**, 114, 2241-2253 | 5.3 | 57 |
| 34 | Targeting of the Arf-GEF GBF1 to lipid droplets and Golgi membranes. *Journal of Cell Science*, **2013**, 126, 4794-805 | 5.3 | 55 |
| 33 | Molecular determinants of the interaction between coxsackievirus protein 3A and guanine nucleotide exchange factor GBF1. *Journal of Virology*, **2007**, 81, 5238-45 | 6.6 | 55 |

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|---|---|---|---|
| 32 | A giant amphipathic helix from a perilipin that is adapted for coating lipid droplets. *Nature Communications*, **2018**, 9, 1332 | 17.4 | 54 |
| 31 | Poliovirus replication requires the N-terminus but not the catalytic Sec7 domain of ArfGEF GBF1. *Cellular Microbiology*, **2010**, 12, 1463-79 | 3.9 | 52 |
| 30 | A COPI coat subunit interacts directly with an early-Golgi localized Arf exchange factor. *EMBO Reports*, **2009**, 10, 58-64 | 6.5 | 51 |
| 29 | Brefeldin A revealing the fundamental principles governing membrane dynamics and protein transport. *Sub-Cellular Biochemistry*, **2000**, 34, 233-72 | 5.5 | 51 |
| 28 | A novel Golgi membrane protein is a partner of the ARF exchange factors Gea1p and Gea2p. *Molecular Biology of the Cell*, **2003**, 14, 2357-71 | 3.5 | 47 |
| 27 | Lipid droplet biogenesis. *Current Opinion in Cell Biology*, **2019**, 59, 88-96 | 9 | 45 |
| 26 | Three dimensional configuration of the secretory pathway and segregation of secretion granules in the yeast Saccharomyces cerevisiae. *Journal of Cell Science*, **2001**, 114, 2231-2239 | 5.3 | 43 |
| 25 | Interaction between the triglyceride lipase ATGL and the Arf1 activator GBF1. *PLoS ONE*, **2011**, 6, e21889 | 3.7 | 40 |
| 24 | Interactions between conserved domains within homodimers in the BIG1, BIG2, and GBF1 Arf guanine nucleotide exchange factors. *Journal of Biological Chemistry*, **2007**, 282, 28834-28842 | 5.4 | 37 |
| 23 | Membrane traffic: Arl GTPases get a GRIP on the Golgi. *Current Biology*, **2003**, 13, R174-6 | 6.3 | 36 |
| 22 | Recycling of Raft-associated prohormone sorting receptor carboxypeptidase E requires interaction with ARF6. *Molecular Biology of the Cell*, **2003**, 14, 4448-57 | 3.5 | 35 |
| 21 | GBF1 and Arf1 function in vesicular trafficking, lipid homoeostasis and organelle dynamics. *Biology of the Cell*, **2017**, 109, 391-399 | 3.5 | 30 |
| 20 | Identification of class II ADP-ribosylation factors as cellular factors required for hepatitis C virus replication. *Cellular Microbiology*, **2016**, 18, 1121-33 | 3.9 | 26 |
| 19 | Effects of brefeldin A on the three-dimensional structure of the Golgi apparatus in a sensitive strain of Saccharomyces cerevisiae. *The Anatomical Record*, **1995**, 241, 1-9 | | 26 |
| 18 | Endosome-specific localization and function of the ARF activator GNOM. *Cell*, **2003**, 112, 141-2 | 56.2 | 22 |
| 17 | Trs65p, a subunit of the Ypt1p GEF TRAPPII, interacts with the Arf1p exchange factor Gea2p to facilitate COPI-mediated vesicle traffic. *Molecular Biology of the Cell*, **2011**, 22, 3634-44 | 3.5 | 21 |
| 16 | Identification of GBF1 as a cellular factor required for hepatitis E virus RNA replication. *Cellular Microbiology*, **2018**, 20, e12804 | 3.9 | 19 |
| 15 | Mutations in a highly conserved region of the Arf1p activator GEA2 block anterograde Golgi transport but not COPI recruitment to membranes. *Molecular Biology of the Cell*, **2005**, 16, 3786-99 | 3.5 | 18 |

# List of Publications

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|---|---|---|---|
| 14 | GBF1 and Arf1 interact with Miro and regulate mitochondrial positioning within cells. *Scientific Reports*, **2018**, 8, 17121 | 4.9 | 18 |
| 13 | Functional analysis of ADP-ribosylation factor (ARF) guanine nucleotide exchange factors Gea1p and Gea2p in yeast. *Methods in Enzymology*, **2001**, 329, 290-300 | 1.7 | 15 |
| 12 | Ultrastructural modifications of vesicular and Golgi elements in the Saccharomyces cerevisiae sec21 mutant at permissive and non-permissive temperatures. *The Anatomical Record*, **1994**, 240, 32-41 | | 13 |
| 11 | Activators and Effectors of the Small G Protein Arf1 in Regulation of Golgi Dynamics During the Cell Division Cycle. *Frontiers in Cell and Developmental Biology*, **2018**, 6, 29 | 5.7 | 11 |
| 10 | Functional and Physical Interaction between the Arf Activator GBF1 and Hepatitis C Virus NS3 Protein. *Journal of Virology*, **2019**, 93, | 6.6 | 11 |
| 9 | Fatty acid metabolism meets organelle dynamics. *Developmental Cell*, **2015**, 32, 657-8 | 10.2 | 9 |
| 8 | Hepatitis C virus replication and Golgi function in brefeldin a-resistant hepatoma-derived cells. *PLoS ONE*, **2013**, 8, e74491 | 3.7 | 9 |
| 7 | Inheritance of the Golgi Apparatus and Cytokinesis Are Controlled by Degradation of GBF1. *Cell Reports*, **2018**, 23, 3381-3391.e4 | 10.6 | 8 |
| 6 | GEF-effector interactions. *Cellular Logistics*, **2014**, 4, e943616 | | 7 |
| 5 | Membrane Trafficking: A Little Flexibility Helps Vesicles Get into Shape. *Current Biology*, **2018**, 28, R706-R709 | 8.3 | 3 |
| 4 | Arf Proteins and Their Regulators: At the Interface Between Membrane Lipids and the Protein Trafficking Machinery **2014**, 151-180 | | 2 |
| 3 | The Sec7 Family of Arf Guanine Nucleotide Exchange Factors **2004**, 71-99 | | 2 |
| 2 | The Hepatocellular Secretory Pathway **2020**, 75-85 | | |
| 1 | An MBoC favorite: ARF is required for maintenance of yeast Golgi and endosome structure and function. *Molecular Biology of the Cell*, **2012**, 23, 2822 | 3.5 | |