# Mary Dasso

## List of Publications by Citations



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|---|---|---|---|
| 112 papers | 7,609 citations | 50 h-index | 87 g-index |
| 149 ext. papers | 8,346 ext. citations | 9.9 avg, IF | 5.99 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 112 | Modification in reverse: the SUMO proteases. *Trends in Biochemical Sciences*, **2007**, 32, 286-95 | 10.3 | 443 |
| 111 | The disruption of ND10 during herpes simplex virus infection correlates with the Vmw110- and proteasome-dependent loss of several PML isoforms. *Journal of Virology*, **1998**, 72, 6581-91 | 6.6 | 339 |
| 110 | Completion of DNA replication is monitored by a feedback system that controls the initiation of mitosis in vitro: studies in Xenopus. *Cell*, **1990**, 61, 811-23 | 56.2 | 335 |
| 109 | The ran GTPase regulates mitotic spindle assembly. *Current Biology*, **1999**, 9, 481-4 | 6.3 | 300 |
| 108 | The RanGAP1-RanBP2 complex is essential for microtubule-kinetochore interactions in vivo. *Current Biology*, **2004**, 14, 611-7 | 6.3 | 292 |
| 107 | SUMO-1 targets RanGAP1 to kinetochores and mitotic spindles. *Journal of Cell Biology*, **2002**, 156, 595-602 | 7.3 | 240 |
| 106 | Association of the human SUMO-1 protease SENP2 with the nuclear pore. *Journal of Biological Chemistry*, **2002**, 277, 19961-6 | 5.4 | 186 |
| 105 | Ubc9p and the conjugation of SUMO-1 to RanGAP1 and RanBP2. *Current Biology*, **1998**, 8, 121-4 | 6.3 | 185 |
| 104 | Chromatin transitions during early Xenopus embryogenesis: changes in histone H4 acetylation and in linker histone type. *Developmental Biology*, **1993**, 160, 214-27 | 3.1 | 179 |
| 103 | SUMO-2/3 regulates topoisomerase II in mitosis. *Journal of Cell Biology*, **2003**, 163, 477-87 | 7.3 | 173 |
| 102 | RanBP2 associates with Ubc9p and a modified form of RanGAP1. *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 3736-41 | 11.5 | 170 |
| 101 | RCC1 in the cell cycle: the regulator of chromosome condensation takes on new roles. *Trends in Biochemical Sciences*, **1993**, 18, 96-101 | 10.3 | 166 |
| 100 | The Ran GTPase: theme and variations. *Current Biology*, **2002**, 12, R502-8 | 6.3 | 164 |
| 99 | Crm1 is a mitotic effector of Ran-GTP in somatic cells. *Nature Cell Biology*, **2005**, 7, 626-32 | 23.4 | 158 |
| 98 | Distinct in vivo dynamics of vertebrate SUMO paralogues. *Molecular Biology of the Cell*, **2004**, 15, 5208-18 | 9.5 | 157 |
| 97 | The small GTPase Ran: interpreting the signs. *Current Opinion in Cell Biology*, **2003**, 15, 338-44 | 9 | 157 |
| 96 | Running on Ran: nuclear transport and the mitotic spindle. *Cell*, **2001**, 104, 321-4 | 56.2 | 155 |

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| 95 | The Nup107-160 complex and gamma-TuRC regulate microtubule polymerization at kinetochores. *Nature Cell Biology*, **2010**, 12, 164-9 | 23.4 | 143 |
| 94 | Evidence for a dual role for TC4 protein in regulating nuclear structure and cell cycle progression. *Journal of Cell Biology*, **1994**, 125, 705-19 | 7.3 | 130 |
| 93 | SUMO-1: wrestling with a new ubiquitin-related modifier. *Trends in Biochemical Sciences*, **1997**, 22, 374-6 | 10.3 | 128 |
| 92 | The Nup107-160 nucleoporin complex is required for correct bipolar spindle assembly. *Molecular Biology of the Cell*, **2006**, 17, 3806-18 | 3.5 | 127 |
| 91 | PIASy mediates SUMO-2 conjugation of Topoisomerase-II on mitotic chromosomes. *EMBO Journal*, **2005**, 24, 2172-82 | 13 | 126 |
| 90 | SUMOylation and deSUMOylation at a glance. *Journal of Cell Science*, **2009**, 122, 4249-52 | 5.3 | 124 |
| 89 | SUSP1 antagonizes formation of highly SUMO2/3-conjugated species. *Journal of Cell Biology*, **2006**, 174, 939-49 | 7.3 | 124 |
| 88 | The ran decathlon: multiple roles of Ran. *Journal of Cell Science*, **2000**, 113, 1111-1118 | 5.3 | 117 |
| 87 | The Ran GTPase regulates kinetochore function. *Developmental Cell*, **2003**, 5, 99-111 | 10.2 | 115 |
| 86 | A mutant form of the Ran/TC4 protein disrupts nuclear function in Xenopus laevis egg extracts by inhibiting the RCC1 protein, a regulator of chromosome condensation.. *EMBO Journal*, **1994**, 13, 5732-5744 | 13 | 103 |
| 85 | Emerging roles of the SUMO pathway in mitosis. *Cell Division*, **2008**, 3, 5 | 2.8 | 102 |
| 84 | The SUMO protease SENP6 is essential for inner kinetochore assembly. *Journal of Cell Biology*, **2010**, 188, 681-92 | 7.3 | 93 |
| 83 | RCC1, a regulator of mitosis, is essential for DNA replication. *Molecular and Cellular Biology*, **1992**, 12, 3337-45 | 4.8 | 93 |
| 82 | Bub1 is essential for assembly of the functional inner centromere. *Journal of Cell Biology*, **2007**, 176, 919-28 | 7.3 | 92 |
| 81 | On the coupling between DNA replication and mitosis. *Journal of Cell Science*, **1989**, 12, 149-60 | 5.3 | 90 |
| 80 | Sumoylation at chromatin governs coordinated repression of a transcriptional program essential for cell growth and proliferation. *Genome Research*, **2013**, 23, 1563-79 | 9.7 | 86 |
| 79 | Distribution and paralogue specificity of mammalian deSUMOylating enzymes. *Biochemical Journal*, **2010**, 430, 335-44 | 3.8 | 80 |
| 78 | Nucleolar protein B23/nucleophosmin regulates the vertebrate SUMO pathway through SENP3 and SENP5 proteases. *Journal of Cell Biology*, **2008**, 183, 589-95 | 7.3 | 79 |

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| 77 | Xenopus HJURP and condensin II are required for CENP-A assembly. *Journal of Cell Biology*, **2011**, 192, 899-899 | 7.3 | 78 |
| 76 | Long Noncoding RNA PURPL Suppresses Basal p53 Levels and Promotes Tumorigenicity in Colorectal Cancer. *Cell Reports*, **2017**, 20, 2408-2423 | 10.6 | 77 |
| 75 | Nucleoporin levels regulate cell cycle progression and phase-specific gene expression. *Developmental Cell*, **2008**, 15, 657-67 | 10.2 | 75 |
| 74 | Xenopus HJURP and condensin II are required for CENP-A assembly. *Journal of Cell Biology*, **2011**, 192, 569-82 | 7.3 | 74 |
| 73 | SUMO-2 and PIAS1 modulate insoluble mutant huntingtin protein accumulation. *Cell Reports*, **2013**, 4, 362-75 | 10.6 | 68 |
| 72 | The role of Ran in nuclear function. *Current Opinion in Cell Biology*, **2000**, 12, 302-7 | 9 | 65 |
| 71 | Nuclear assembly is independent of linker histones. *Proceedings of the National Academy of Sciences of the United States of America*, **1994**, 91, 12477-81 | 11.5 | 64 |
| 70 | Ran-GTP regulates kinetochore attachment in somatic cells. *Cell Cycle*, **2005**, 4, 1161-5 | 4.7 | 62 |
| 69 | The nucleoporin Nup358 associates with and regulates interphase microtubules. *FEBS Letters*, **2008**, 582, 190-6 | 3.8 | 61 |
| 68 | Human condensin function is essential for centromeric chromatin assembly and proper sister kinetochore orientation. *PLoS ONE*, **2009**, 4, e6831 | 3.7 | 59 |
| 67 | Direct and indirect association of the small GTPase ran with nuclear pore proteins and soluble transport factors: studies in Xenopus laevis egg extracts. *Molecular Biology of the Cell*, **1996**, 7, 1319-34 | 3.5 | 55 |
| 66 | Plant-specific mitotic targeting of RanGAP requires a functional WPP domain. *Plant Journal*, **2005**, 42, 270-82 | 6.9 | 54 |
| 65 | A mutant form of the Ran/TC4 protein disrupts nuclear function in Xenopus laevis egg extracts by inhibiting the RCC1 protein, a regulator of chromosome condensation. *EMBO Journal*, **1994**, 13, 5732-44 | 13 | 54 |
| 64 | The human RAE1 gene is a functional homologue of Schizosaccharomyces pombe rae1 gene involved in nuclear export of Poly(A)+ RNA. *Gene*, **1997**, 198, 251-8 | 3.8 | 53 |
| 63 | Prosurvival long noncoding RNA regulates a subset of p53 targets in human colorectal cancer cells by binding to Matrin 3. *ELife*, **2017**, 6, | 8.9 | 50 |
| 62 | The ran decathlon: multiple roles of Ran. *Journal of Cell Science*, **2000**, 113 ( Pt 7), 1111-8 | 5.3 | 48 |
| 61 | RCC1, a regulator of mitosis, is essential for DNA replication. *Molecular and Cellular Biology*, **1992**, 12, 3337-3345 | 4.8 | 45 |
| 60 | Senp1 is essential for desumoylating Sumo1-modified proteins but dispensable for Sumo2 and Sumo3 deconjugation in the mouse embryo. *Cell Reports*, **2013**, 3, 1640-50 | 10.6 | 44 |

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| 59 | The promyelocytic leukemia protein stimulates SUMO conjugation in yeast. *Oncogene*, **2006**, 25, 2999-3005 | 9.2 | 44 |
| 58 | Expression and regulation of the mammalian SUMO-1 E1 enzyme. *FASEB Journal*, **2001**, 15, 1825-7 | 0.9 | 44 |
| 57 | Nuclear envelope breakdown is coordinated by both Nup358/RanBP2 and Nup153, two nucleoporins with zinc finger modules. *Molecular Biology of the Cell*, **2006**, 17, 760-9 | 3.5 | 41 |
| 56 | PIASy mediates SUMO-2/3 conjugation of poly(ADP-ribose) polymerase 1 (PARP1) on mitotic chromosomes. *Journal of Biological Chemistry*, **2010**, 285, 14415-23 | 5.4 | 40 |
| 55 | Enzyme regulation. IRBIT is a novel regulator of ribonucleotide reductase in higher eukaryotes. *Science*, **2014**, 345, 1512-5 | 33.3 | 39 |
| 54 | The balance of RanBP1 and RCC1 is critical for nuclear assembly and nuclear transport. *Molecular Biology of the Cell*, **1997**, 8, 1955-70 | 3.5 | 36 |
| 53 | Two distinct sites in Nup153 mediate interaction with the SUMO proteases SENP1 and SENP2. *Nucleus*, **2012**, 3, 349-58 | 3.9 | 34 |
| 52 | RanBP1 governs spindle assembly by defining mitotic Ran-GTP production. *Developmental Cell*, **2014**, 31, 393-404 | 10.2 | 33 |
| 51 | The RCC1 protein interacts with Ran, RanBP1, hsc70, and a 340-kDa protein in Xenopus extracts. *Journal of Biological Chemistry*, **1995**, 270, 10658-63 | 5.4 | 33 |
| 50 | The cellular environment shapes the nuclear pore complex architecture. *Nature*, **2021**, 598, 667-671 | 50.4 | 28 |
| 49 | Nucleoporin TPR is an integral component of the TREX-2 mRNA export pathway. *Nature Communications*, **2020**, 11, 4577 | 17.4 | 25 |
| 48 | The fate of metaphase kinetochores is weighed in the balance of SUMOylation during S phase. *Cell Cycle*, **2010**, 9, 3194-201 | 4.7 | 23 |
| 47 | Ran at kinetochores. *Biochemical Society Transactions*, **2006**, 34, 711-5 | 5.1 | 22 |
| 46 | SUMOylation of the C-terminal domain of DNA topoisomerase IIregulates the centromeric localization of Claspin. *Cell Cycle*, **2015**, 14, 2777-84 | 4.7 | 21 |
| 45 | Vesicular stomatitis virus inhibits mitotic progression and triggers cell death. *EMBO Reports*, **2009**, 10, 1154-60 | 6.5 | 21 |
| 44 | A new clue at the nuclear pore: RanBP2 is an E3 enzyme for SUMO1. *Developmental Cell*, **2002**, 2, 130-1 | 10.2 | 21 |
| 43 | The SUMO proteases SENP1 and SENP2 play a critical role in nucleoporin homeostasis and nuclear pore complex function. *Molecular Biology of the Cell*, **2014**, 25, 160-8 | 3.5 | 20 |
| 42 | Nuclear transport: run by Ran?. *American Journal of Human Genetics*, **1998**, 63, 311-6 | 11 | 20 |

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| 41 | Potential roles of the nucleotide exchange factor ECT2 and Cdc42 GTPase in spindle assembly in Xenopus egg cell-free extracts. *Journal of Cellular Biochemistry*, **2003**, 90, 892-900 | 4.7 | 19 |
| 40 | The hCSE1/CAS protein is phosphorylated by HeLa extracts and MEK-1: MEK-1 phosphorylation may modulate the intracellular localization of CAS. *Biochemical and Biophysical Research Communications*, **1998**, 250, 623-8 | 3.4 | 16 |
| 39 | The SUMO Pathway in Mitosis. *Advances in Experimental Medicine and Biology*, **2017**, 963, 171-184 | 3.6 | 15 |
| 38 | Identification and developmental expression of Xenopus laevis SUMO proteases. *PLoS ONE*, **2009**, 4, e8462 | 3.7 | 15 |
| 37 | The role of the Ran GTPase pathway in cell cycle control and interphase nuclear functions. *Progress in Cell Cycle Research*, **1995**, 1, 163-72 | | 15 |
| 36 | An ent-kaurene that inhibits mitotic chromosome movement and binds the kinetochore protein ran-binding protein 2. *ACS Chemical Biology*, **2006**, 1, 443-50 | 4.9 | 14 |
| 35 | Ran GTPase regulates Mad2 localization to the nuclear pore complex. *Eukaryotic Cell*, **2005**, 4, 274-80 | | 14 |
| 34 | SUMOylation of Psmd1 controls Adrm1 interaction with the proteasome. *Cell Reports*, **2014**, 7, 1842-8 | 10.6 | 13 |
| 33 | Molecular Characterization and Functional Analysis of Annulate Lamellae Pore Complexes in Nuclear Transport in Mammalian Cells. *PLoS ONE*, **2015**, 10, e0144508 | 3.7 | 10 |
| 32 | Bora phosphorylation substitutes in trans for T-loop phosphorylation in Aurora A to promote mitotic entry. *Nature Communications*, **2021**, 12, 1899 | 17.4 | 8 |
| 31 | RanBP1 controls the Ran pathway in mammalian cells through regulation of mitotic RCC1 dynamics. *Cell Cycle*, **2020**, 19, 1899-1916 | 4.7 | 7 |
| 30 | RCC1 regulates inner centromeric composition in a Ran-independent fashion. *Cell Cycle*, **2018**, 17, 739-748 | 4.7 | 6 |
| 29 | Phosphorylation of Xenopus p31(comet) potentiates mitotic checkpoint exit. *Cell Cycle*, **2015**, 14, 3978-85 | 4.7 | 6 |
| 28 | The Nuclear Pore Complex consists of two independent scaffolds | | 6 |
| 27 | Architecture of the cytoplasmic face of the nuclear pore | | 6 |
| 26 | A novel assay to screen siRNA libraries identifies protein kinases required for chromosome transmission. *Genome Research*, **2019**, 29, 1719-1732 | 9.7 | 5 |
| 25 | PICH regulates the abundance and localization of SUMOylated proteins on mitotic chromosomes. *Molecular Biology of the Cell*, **2020**, 31, 2537-2556 | 3.5 | 4 |
| 24 | Distinct roles of nuclear basket proteins in directing the passage of mRNA through the nuclear pore. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118, | 11.5 | 4 |

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| 23 | IRBIT Directs Differentiation of Intestinal Stem Cell Progeny to Maintain Tissue Homeostasis. *IScience*, **2020**, 23, 100954 | 6.1 | 3 |
| 22 | Quantitative assessment of chromosome instability induced through chemical disruption of mitotic progression. *Cell Cycle*, **2016**, 15, 1706-14 | 4.7 | 3 |
| 21 | Gating Immunity and Death at the Nuclear Pore Complex. *Cell*, **2016**, 166, 1364-1366 | 56.2 | 2 |
| 20 | Cellular Aging and Death. *Current Protocols in Cell Biology*, **2005**, 27, 18.0.1-18.0.2 | 2.3 | 2 |
| 19 | Association of RanGAP to nuclear pore complex component, RanBP2/Nup358, is required for pupal development in Drosophila.. *Cell Reports*, **2021**, 37, 110151 | 10.6 | 2 |
| 18 | Catch and release: 14-3-3 controls Ncd in meiotic spindles. *Journal of Cell Biology*, **2017**, 216, 3003-3005 | 7.3 | 1 |
| 17 | A Mad that wears two hats: Mad1 control of nuclear trafficking. *Developmental Cell*, **2013**, 24, 121-2 | 10.2 | 1 |
| 16 | Assembly of correct kinetochore architecture in Xenopus egg extract requires transition of sperm DNA through interphase. *Cell and Tissue Biology*, **2007**, 1, 80-88 | 0.4 | 1 |
| 15 | DNA replication and progression through the cell cycle. *Novartis Foundation Symposium*, **1992**, 170, 161-80; discussion 180-6 | | 1 |
| 14 | Distinct Basket Nucleoporins roles in Nuclear Pore Function and Gene Expression: Tpr is an integral component of the TREX-2 mRNA export pathway | | 1 |
| 13 | Nuclear RNA binding regulates TDP-43 nuclear localization and passive nuclear export | | 1 |
| 12 | Kar9 Controls the Cytoplasm by Visiting the Nucleus. *Developmental Cell*, **2016**, 36, 360-1 | 10.2 | 0 |
| 11 | High-Resolution Imaging and Analysis of Individual Nuclear Pore Complexes.. *Methods in Molecular Biology*, **2022**, 2502, 461-471 | 1.4 | 0 |
| 10 | The cell nucleus. A study in Burgundy. *Nucleus*, **2019**, 10, 213-217 | 3.9 | |
| 9 | Shedding light on mysterious microtubules. *Developmental Cell*, **2011**, 20, e1 | 10.2 | |
| 8 | Meeting report: International Symposium on Ran and the Cell Cycle October 2-5, 2005, Awaji Yumebutai, Japan. *Traffic*, **2006**, 7, 474-8 | 5.7 | |
| 7 | Multiple Roles of the Ran GTPase During the Cell Cycle **2001**, 105-122 | | |
| 6 | Cellular Roles of the Ran GTPase **2003**, 695-699 | | |

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| 5 | Paralog specificity of mammalian SENPs for SUMO-1 and SUMO-2. *FASEB Journal*, **2008**, 22, 604.1 | 0.9 |
| 4 | IRBIT is a Novel Regulator of Ribonucleotide Reductase in Higher Eukaryotes. *FASEB Journal*, **2015**, 29, 884.60 | 0.9 |
| 3 | The SUMO Pathway in Mitosis **2009**, 153-169 | |
| 2 | The Ran GTPase **2010**, 1763-1771 | |
| 1 | Analysis of Nucleoporin Function Using Inducible Degron Techniques.. *Methods in Molecular Biology* , **2022**, 2502, 129-150 | 1.4 |