Paul Nurse

List of Publications by Citations

60 papers	17,085 citations	36 h-index	64 g-index
64 ext. papers	18,318 ext. citations	22.9 avg, IF	6.71 L-index

#	Paper	IF	Citations
60	Molecular genetic analysis of fission yeast Schizosaccharomyces pombe. *Methods in Enzymology*, **1991**, 194, 795-823	1.7	2987
59	Universal control mechanism regulating onset of M-phase. *Nature*, **1990**, 344, 503-8	50.4	2625
58	Tyrosine phosphorylation of the fission yeast cdc2+ protein kinase regulates entry into mitosis. *Nature*, **1989**, 342, 39-45	50.4	1154
57	Complementation used to clone a human homologue of the fission yeast cell cycle control gene cdc2. *Nature*, **1987**, 327, 31-5	50.4	1027
56	Negative regulation of mitosis by wee1+, a gene encoding a protein kinase homolog. *Cell*, **1987**, 49, 559-67	56.2	916
55	cdc25+ functions as an inducer in the mitotic control of fission yeast. *Cell*, **1986**, 45, 145-53	56.2	896
54	Genetic control of cell size at cell division in yeast. *Nature*, **1975**, 256, 547-51	50.4	696
53	Genetic control of the cell division cycle in the fission yeast Schizosaccharomyces pombe. *Molecular Genetics and Genomics*, **1976**, 146, 167-78		692
52	Gene required in G1 for commitment to cell cycle and in G2 for control of mitosis in fission yeast. *Nature*, **1981**, 292, 558-60	50.4	683
51	Regulation of p34cdc2 protein kinase during mitosis. *Cell*, **1989**, 58, 361-72	56.2	543
50	Analysis of a genome-wide set of gene deletions in the fission yeast Schizosaccharomyces pombe. *Nature Biotechnology*, **2010**, 28, 617-623	44.5	510
49	Mutation of fission yeast cell cycle control genes abolishes dependence of mitosis on DNA replication. *Cell*, **1990**, 60, 665-73	56.2	444
48	Involvement of p34cdc2 in establishing the dependency of S phase on mitosis. *Nature*, **1991**, 349, 388-93	50.4	343
47	Dephosphorylation and activation of Xenopus p34cdc2 protein kinase during the cell cycle. *Nature*, **1989**, 339, 626-9	50.4	304
46	A spatial gradient coordinates cell size and mitotic entry in fission yeast. *Nature*, **2009**, 459, 857-60	50.4	290
45	Driving the cell cycle with a minimal CDK control network. *Nature*, **2010**, 468, 1074-9	50.4	272
44	Regulatory genes controlling mitosis in the fission yeast Schizosaccharomyces pombe. *Genetics*, **1980**, 96, 627-37	4	268

43	Nuclear size control in fission yeast. *Journal of Cell Biology*, **2007**, 179, 593-600	7.3	257
42	Cell division cycle mutants altered in DNA replication and mitosis in the fission yeast Schizosaccharomyces pombe. *Molecular Genetics and Genomics*, **1981**, 182, 119-24		241
41	Construction of a Schizosaccharomyces pombe gene bank in a yeast bacterial shuttle vector and its use to isolate genes by complementation. *Molecular Genetics and Genomics*, **1982**, 187, 326-9		227
40	Regulation of mitosis by cyclic accumulation of p80cdc25 mitotic inducer in fission yeast. *Nature*, **1990**, 344, 549-52	50.4	203
39	CDK Substrate Phosphorylation and Ordering the Cell Cycle. *Cell*, **2016**, 167, 1750-1761.e16	56.2	159
38	cut11(+): A gene required for cell cycle-dependent spindle pole body anchoring in the nuclear envelope and bipolar spindle formation in Schizosaccharomyces pombe. *Molecular Biology of the Cell*, **1998**, 9, 2839-55	3.5	137
37	Mutants of the fission yeast Schizosaccharomyces pombe which alter the shift between cell proliferation and sporulation. *Molecular Genetics and Genomics*, **1985**, 198, 497-502		129
36	A genome-wide resource of cell cycle and cell shape genes of fission yeast. *Open Biology*, **2013**, 3, 130053	7	109
35	Checkpoint check. *Nature*, **1993**, 361, 26	50.4	81
34	A coordinated global control over cellular transcription. *Current Biology*, **2010**, 20, 2010-5	6.3	78
33	In vivo localisation of fission yeast cyclin-dependent kinase cdc2p and cyclin B cdc13p during mitosis and meiosis. *Journal of Cell Science*, **2001**, 114, 2627-2640	5.3	71
32	Pom1 and cell size homeostasis in fission yeast. *Cell Cycle*, **2013**, 12, 3228-36	4.7	55
31	Novel cell cycle control of RNA synthesis in yeast. *Nature*, **1978**, 271, 726-30	50.4	48
30	Sizing up to divide: mitotic cell-size control in fission yeast. *Annual Review of Cell and Developmental Biology*, **2015**, 31, 11-29	12.6	43
29	A systematic screen reveals new elements acting at the G2/M cell cycle control. *Genome Biology*, **2012**, 13, R36	18.3	43
28	Yeast as a model system for understanding the control of DNA replication in Eukaryotes. *BioEssays*, **1990**, 12, 457-63	4.1	42
27	Potent, Reversible, and Specific Chemical Inhibitors of Eukaryotic Ribosome Biogenesis. *Cell*, **2016**, 167, 512-524.e14	56.2	39
26	Quantitative Phosphoproteomics Reveals the Signaling Dynamics of Cell-Cycle Kinases in the Fission Yeast Schizosaccharomyces pombe. *Cell Reports*, **2018**, 24, 503-514	10.6	39

25	The G1/S cyclin Cig2p during meiosis in fission yeast. *Molecular Biology of the Cell*, **2002**, 13, 2080-90	3.5	37
24	Unravelling nuclear size control. *Current Genetics*, **2019**, 65, 1281-1285	2.9	35
23	S. pombe genome deletion project: an update. *Cell Cycle*, **2010**, 9, 2399-402	4.7	32
22	Nuclear membrane protein Lem2 regulates nuclear size through membrane flow. *Nature Communications*, **2019**, 10, 1871	17.4	29
21	A systematic genomic screen implicates nucleocytoplasmic transport and membrane growth in nuclear size control. *PLoS Genetics*, **2017**, 13, e1006767	6	29
20	A single cyclin-CDK complex is sufficient for both mitotic and meiotic progression in fission yeast. *Nature Communications*, **2015**, 6, 6871	17.4	28
19	Global control of cell growth in fission yeast and its coordination with the cell cycle. *Current Opinion in Cell Biology*, **2012**, 24, 833-7	9	27
18	Expression of a dominant negative allele of cdc2 prevents activation of the endogenous p34cdc2 kinase. *Molecular Genetics and Genomics*, **1991**, 226, 432-40		26
17	Nuclear envelope expansion is crucial for proper chromosomal segregation during a closed mitosis. *Journal of Cell Science*, **2016**, 129, 1250-9	5.3	22
16	Noisy Cell-Size-Correlated Expression of Cyclin B Drives Probabilistic Cell-Size Homeostasis in Fission Yeast. *Current Biology*, **2019**, 29, 1379-1386.e4	6.3	20
15	A systematic genetic screen identifies essential factors involved in nuclear size control. *PLoS Genetics*, **2019**, 15, e1007929	6	18
14	Ciba Medal Lecture. Eukaryotic cell-cycle control. *Biochemical Society Transactions*, **1992**, 20, 239-42	5.1	18
13	Mammalian phosphatidylinositol 3Skinase induces a lethal phenotype on expression in Schizosaccharomyces pombe; comparison with the VPS34 gene product. *FEBS Journal*, **1994**, 219, 775-80		17
12	Involvement in Meiotic Prophase of H1 Histone Kinase and p34cdc2 Homologues in Lily (Lilium longiflorum) Microsporocytes. *Development Growth and Differentiation*, **1991**, 33, 625-632	3	12
11	Investigations into the control of cell form and polarity: the use of morphological mutants in fission yeast. *Development (Cambridge)*, **1993**, 119, 289-299	6.6	12
10	A genome-wide screen to identify genes controlling the rate of entry into mitosis in fission yeast. *Cell Cycle*, **2016**, 15, 3121-3130	4.7	11
9	Cell-cycle control in yeasts [proceedings]. *Biochemical Society Transactions*, **1977**, 5, 1191-3	5.1	7
8	Genome-wide screen for cell growth regulators in fission yeast. *Journal of Cell Science*, **2017**, 130, 2049-2055	5.3	6

7	The Hydrophobic Patch Directs Cyclin B to Centrosomes to Promote Global CDK Phosphorylation at Mitosis. *Current Biology*, **2020**, 30, 883-892.e4	6.3	6
6	Transition probability and cell-cycle initiation in yeast. *Nature*, **1977**, 267, 647-647	50.4	6
5	Controls of cell proliferation in yeast and animals. *Novartis Foundation Symposium*, **1990**, 150, 168-77; discussion 177-83		6
4	A homeostatic mechanism rapidly corrects aberrant nucleocytoplasmic ratios maintaining nuclear size in fission yeast. *Journal of Cell Science*, **2019**, 132,	5.3	5
3	Identification of mutants with increased variation in cell size at onset of mitosis in fission yeast. *Journal of Cell Science*, **2021**, 134,	5.3	5
2	CDK control pathways integrate cell size and ploidy information to control cell division. *ELife*, **2021**, 10,	8.9	3
1	Identification of novel microtubule inhibitors effective in fission yeast and human cells and their effects on breast cancer cell lines. *Open Biology*, **2021**, 11, 210161	7	1