# Geert J P L Kops

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 93 papers | 12,824 citations | 47 h-index | 102 g-index |
| 102 ext. papers | 14,434 ext. citations | 13.4 avg, IF | 6.35 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 93 | Genomic analysis finds no evidence of canonical eukaryotic DNA processing complexes in a free-living protist. *Nature Communications*, **2021**, 12, 6003 | 17.4 | 2 |
| 92 | Chromosomal copy number heterogeneity predicts survival rates across cancers. *Nature Communications*, **2021**, 12, 3188 | 17.4 | 6 |
| 91 | Chromosomal instability by mutations in the novel minor spliceosome component CENATAC. *EMBO Journal*, **2021**, 40, e106536 | 13 | 4 |
| 90 | Compromised MPS1 Activity Induces Multipolar Spindle Formation in Oocytes From Aged Mares: Establishing the Horse as a Natural Animal Model to Study Age-Induced Oocyte Meiotic Spindle Instability. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 657366 | 5.7 | 3 |
| 89 | BCL-XL is crucial for progression through the adenoma-to-carcinoma sequence of colorectal cancer. *Cell Death and Differentiation*, **2021**, 28, 3282-3296 | 12.7 | 6 |
| 88 | Reconstructing single-cell karyotype alterations in colorectal cancer identifies punctuated and gradual diversification patterns. *Nature Genetics*, **2021**, 53, 1187-1195 | 36.3 | 6 |
| 87 | Crowning the Kinetochore: The Fibrous Corona in Chromosome Segregation. *Trends in Cell Biology*, **2020**, 30, 653-667 | 18.3 | 18 |
| 86 | Evolutionary Dynamics of the Spindle Assembly Checkpoint in Eukaryotes. *Current Biology*, **2020**, 30, R589-R602 | 6.3 | 13 |
| 85 | Degree and site of chromosomal instability define its oncogenic potential. *Nature Communications*, **2020**, 11, 1501 | 17.4 | 30 |
| 84 | Human chromosome-specific aneuploidy is influenced by DNA-dependent centromeric features. *EMBO Journal*, **2020**, 39, e102924 | 13 | 41 |
| 83 | A Biosensor for the Mitotic Kinase MPS1 Reveals Spatiotemporal Activity Dynamics and Regulation. *Current Biology*, **2020**, 30, 3862-3870.e6 | 6.3 | 8 |
| 82 | Cyclin B1 scaffolds MAD1 at the kinetochore corona to activate the mitotic checkpoint. *EMBO Journal*, **2020**, 39, e103180 | 13 | 24 |
| 81 | The molecular basis of monopolin recruitment to the kinetochore. *Chromosoma*, **2019**, 128, 331-354 | 2.8 | 12 |
| 80 | Mosaic origin of the eukaryotic kinetochore. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 12873-12882 | 11.5 | 38 |
| 79 | Spindle checkpoint silencing at kinetochores with submaximal microtubule occupancy. *Journal of Cell Science*, **2019**, 132, | 5.3 | 10 |
| 78 | Oral Mucosal Organoids as a Potential Platform for Personalized Cancer Therapy. *Cancer Discovery*, **2019**, 9, 852-871 | 24.4 | 115 |
| 77 | Inferring the Evolutionary History of Your Favorite Protein: A Guide for Molecular Biologists. *BioEssays*, **2019**, 41, e1900006 | 4.1 | 8 |

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| 76 | Ongoing chromosomal instability and karyotype evolution in human colorectal cancer organoids. *Nature Genetics*, **2019**, 51, 824-834 | 36.3 | 91 |
| 75 | Interactions between N-terminal Modules in MPS1 Enable Spindle Checkpoint Silencing. *Cell Reports*, **2019**, 26, 2101-2112.e6 | 10.6 | 5 |
| 74 | Ectopic Activation of the Spindle Assembly Checkpoint Signaling Cascade Reveals Its Biochemical Design. *Current Biology*, **2019**, 29, 104-119.e10 | 6.3 | 11 |
| 73 | Live imaging of cell division in 3D stem-cell organoid cultures. *Methods in Cell Biology*, **2018**, 145, 91-106 | 1.8 | 11 |
| 72 | Dynamic kinetochore size regulation promotes microtubule capture and chromosome biorientation in mitosis. *Nature Cell Biology*, **2018**, 20, 800-810 | 23.4 | 50 |
| 71 | Leader of the SAC: molecular mechanisms of Mps1/TTK regulation in mitosis. *Open Biology*, **2018**, 8, | 7 | 42 |
| 70 | Unique Phylogenetic Distributions of the Ska and Dam1 Complexes Support Functional Analogy and Suggest Multiple Parallel Displacements of Ska by Dam1. *Genome Biology and Evolution*, **2017**, 9, 1295-1303 | 3.9 | 32 |
| 69 | Biallelic TRIP13 mutations predispose to Wilms tumor and chromosome missegregation. *Nature Genetics*, **2017**, 49, 1148-1151 | 36.3 | 75 |
| 68 | Kinetochore Malfunction in Human Pathologies. *Advances in Experimental Medicine and Biology*, **2017**, 1002, 69-91 | 3.6 | 13 |
| 67 | Evolutionary dynamics of the kinetochore network in eukaryotes as revealed by comparative genomics. *EMBO Reports*, **2017**, 18, 1559-1571 | 6.5 | 128 |
| 66 | Crystal structure of a PP2A B56-BubR1 complex and its implications for PP2A substrate recruitment and localization. *Protein and Cell*, **2016**, 7, 516-26 | 7.2 | 44 |
| 65 | Attachment issues: kinetochore transformations and spindle checkpoint silencing. *Current Opinion in Cell Biology*, **2016**, 39, 101-8 | 9 | 57 |
| 64 | Phylogenomics-guided discovery of a novel conserved cassette of short linear motifs in BubR1 essential for the spindle checkpoint. *Open Biology*, **2016**, 6, | 7 | 23 |
| 63 | Studying Kinetochore Kinases. *Methods in Molecular Biology*, **2016**, 1413, 333-47 | 1.4 | 4 |
| 62 | Difference Makers: Chromosomal Instability versus Aneuploidy in Cancer. *Trends in Cancer*, **2016**, 2, 561-571 | 12.5 | 31 |
| 61 | Sequential multisite phospho-regulation of KNL1-BUB3 interfaces at mitotic kinetochores. *Molecular Cell*, **2015**, 57, 824-835 | 17.6 | 74 |
| 60 | Dissecting the roles of human BUB1 in the spindle assembly checkpoint. *Journal of Cell Science*, **2015**, 128, 2975-82 | 5.3 | 56 |
| 59 | Sequential cancer mutations in cultured human intestinal stem cells. *Nature*, **2015**, 521, 43-7 | 50.4 | 624 |

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| 58 | Widespread Recurrent Patterns of Rapid Repeat Evolution in the Kinetochore Scaffold KNL1. *Genome Biology and Evolution*, **2015**, 7, 2383-93 | 3.9 | 23 |
| 57 | Joined at the hip: kinetochores, microtubules, and spindle assembly checkpoint signaling. *Trends in Cell Biology*, **2015**, 25, 21-8 | 18.3 | 133 |
| 56 | CELL DIVISION CYCLE. Competition between MPS1 and microtubules at kinetochores regulates spindle checkpoint signaling. *Science*, **2015**, 348, 1264-7 | 33.3 | 151 |
| 55 | Plk1 and Mps1 Cooperatively Regulate the Spindle Assembly Checkpoint in Human Cells. *Cell Reports*, **2015**, 12, 66-78 | 10.6 | 72 |
| 54 | Kinetochore-microtubule attachment is sufficient to satisfy the human spindle assembly checkpoint. *Nature Communications*, **2015**, 6, 8987 | 17.4 | 56 |
| 53 | A molecular basis for the differential roles of Bub1 and BubR1 in the spindle assembly checkpoint. *ELife*, **2015**, 4, e05269 | 8.9 | 91 |
| 52 | Cell division: SACing the anaphase problem. *Current Biology*, **2014**, 24, R224-6 | 6.3 | 7 |
| 51 | Collateral genome instability by DNA damage in mitosis. *Cancer Discovery*, **2014**, 4, 1256-8 | 24.4 | 1 |
| 50 | Conditional targeting of MAD1 to kinetochores is sufficient to reactivate the spindle assembly checkpoint in metaphase. *Chromosoma*, **2014**, 123, 471-80 | 2.8 | 30 |
| 49 | Assessing kinetics from fixed cells reveals activation of the mitotic entry network at the S/G2 transition. *Molecular Cell*, **2014**, 53, 843-53 | 17.6 | 53 |
| 48 | Negative feedback at kinetochores underlies a responsive spindle checkpoint signal. *Nature Cell Biology*, **2014**, 16, 1257-64 | 23.4 | 130 |
| 47 | Distinct phosphatases antagonize the p53 response in different phases of the cell cycle. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 7313-8 | 11.5 | 59 |
| 46 | Universal quantitative kinase assay based on diagonal SCX chromatography and stable isotope dimethyl labeling provides high-definition kinase consensus motifs for PKA and human Mps1. *Journal of Proteome Research*, **2013**, 12, 2214-24 | 5.6 | 36 |
| 45 | Arrayed BUB recruitment modules in the kinetochore scaffold KNL1 promote accurate chromosome segregation. *Journal of Cell Biology*, **2013**, 203, 943-55 | 7.3 | 92 |
| 44 | A TPR domain-containing N-terminal module of MPS1 is required for its kinetochore localization by Aurora B. *Journal of Cell Biology*, **2013**, 201, 217-31 | 7.3 | 100 |
| 43 | Centromere binding and a conserved role in chromosome stability for SUMO-dependent ubiquitin ligases. *PLoS ONE*, **2013**, 8, e65628 | 3.7 | 23 |
| 42 | The vertebrate mitotic checkpoint protein BUBR1 is an unusual pseudokinase. *Developmental Cell*, **2012**, 22, 1321-9 | 10.2 | 98 |
| 41 | Evolution and function of the mitotic checkpoint. *Developmental Cell*, **2012**, 23, 239-50 | 10.2 | 103 |

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|---|---|---|---|
| 40 | Integration of kinase and phosphatase activities by BUBR1 ensures formation of stable kinetochore-microtubule attachments. *Developmental Cell*, **2012**, 23, 745-55 | 10.2 | 195 |
| 39 | Connecting up and clearing out: how kinetochore attachment silences the spindle assembly checkpoint. *Chromosoma*, **2012**, 121, 509-25 | 2.8 | 45 |
| 38 | Mps1 promotes rapid centromere accumulation of Aurora B. *EMBO Reports*, **2012**, 13, 847-54 | 6.5 | 64 |
| 37 | Improving depth in phosphoproteomics by using a strong cation exchange-weak anion exchange-reversed phase multidimensional separation approach. *Analytical Chemistry*, **2011**, 83, 7137-43 | 7.8 | 46 |
| 36 | Chromosome segregation errors as a cause of DNA damage and structural chromosome aberrations. *Science*, **2011**, 333, 1895-8 | 33.3 | 401 |
| 35 | Aurora B potentiates Mps1 activation to ensure rapid checkpoint establishment at the onset of mitosis. *Nature Communications*, **2011**, 2, 316 | 17.4 | 165 |
| 34 | A phospho/methyl switch at histone H3 regulates TFIID association with mitotic chromosomes. *EMBO Journal*, **2010**, 29, 3967-78 | 13 | 74 |
| 33 | Small-molecule kinase inhibitors provide insight into Mps1 cell cycle function. *Nature Chemical Biology*, **2010**, 6, 359-68 | 11.7 | 178 |
| 32 | Release of Mps1 from kinetochores is crucial for timely anaphase onset. *Journal of Cell Biology*, **2010**, 191, 281-90 | 7.3 | 88 |
| 31 | Molecular causes for BUBR1 dysfunction in the human cancer predisposition syndrome mosaic variegated aneuploidy. *Cancer Research*, **2010**, 70, 4891-900 | 10.1 | 85 |
| 30 | APC16 is a conserved subunit of the anaphase-promoting complex/cyclosome. *Journal of Cell Science*, **2010**, 123, 1623-33 | 5.3 | 23 |
| 29 | Finding the middle ground: how kinetochores power chromosome congression. *Cellular and Molecular Life Sciences*, **2010**, 67, 2145-61 | 10.3 | 45 |
| 28 | Chemical genetic inhibition of Mps1 in stable human cell lines reveals novel aspects of Mps1 function in mitosis. *PLoS ONE*, **2010**, 5, e10251 | 3.7 | 77 |
| 27 | Elevating the frequency of chromosome mis-segregation as a strategy to kill tumor cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 19108-13 | 11.5 | 231 |
| 26 | Dividing the goods: co-ordination of chromosome biorientation and mitotic checkpoint signalling by mitotic kinases. *Biochemical Society Transactions*, **2009**, 37, 971-5 | 5.1 | 7 |
| 25 | Preventing aneuploidy: the contribution of mitotic checkpoint proteins. *Biochimica Et Biophysica Acta: Reviews on Cancer*, **2008**, 1786, 24-31 | 11.2 | 42 |
| 24 | Mps1 phosphorylates Borealin to control Aurora B activity and chromosome alignment. *Cell*, **2008**, 132, 233-46 | 56.2 | 220 |
| 23 | The kinetochore and spindle checkpoint in mammals. *Frontiers in Bioscience - Landmark*, **2008**, 13, 3606-28 | 3.8 | 31 |

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| 22 | Chromosomal instability by inefficient Mps1 auto-activation due to a weakened mitotic checkpoint and lagging chromosomes. *PLoS ONE*, **2008**, 3, e2415 | 3.7 | 67 |
| 21 | On the road to cancer: aneuploidy and the mitotic checkpoint. *Nature Reviews Cancer*, **2005**, 5, 773-85 | 31.3 | 903 |
| 20 | ZW10 links mitotic checkpoint signaling to the structural kinetochore. *Journal of Cell Biology*, **2005**, 169, 49-60 | 7.3 | 196 |
| 19 | Regulation of sterol carrier protein gene expression by the forkhead transcription factor FOXO3a. *Journal of Lipid Research*, **2004**, 45, 81-8 | 6.3 | 36 |
| 18 | Lethality to human cancer cells through massive chromosome loss by inhibition of the mitotic checkpoint. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 8699-704 | 11.5 | 337 |
| 17 | Survivin is required for a sustained spindle checkpoint arrest in response to lack of tension. *EMBO Journal*, **2003**, 22, 2934-47 | 13 | 236 |
| 16 | Centromere-associated protein-E is essential for the mammalian mitotic checkpoint to prevent aneuploidy due to single chromosome loss. *Journal of Cell Biology*, **2003**, 162, 551-63 | 7.3 | 203 |
| 15 | Cell cycle and death control: long live Forkheads. *Trends in Biochemical Sciences*, **2002**, 27, 352-60 | 10.3 | 602 |
| 14 | Forkhead transcription factor FOXO3a protects quiescent cells from oxidative stress. *Nature*, **2002**, 419, 316-21 | 50.4 | 1253 |
| 13 | Cell cycle inhibition by FoxO forkhead transcription factors involves downregulation of cyclin D. *Molecular and Cellular Biology*, **2002**, 22, 7842-52 | 4.8 | 455 |
| 12 | The forkhead transcription factor FoxO regulates transcription of p27Kip1 and Bim in response to IL-2. *Journal of Immunology*, **2002**, 168, 5024-31 | 5.3 | 503 |
| 11 | Control of cell cycle exit and entry by protein kinase B-regulated forkhead transcription factors. *Molecular and Cellular Biology*, **2002**, 22, 2025-36 | 4.8 | 371 |
| 10 | Inhibition of nuclear import by protein kinase B (Akt) regulates the subcellular distribution and activity of the forkhead transcription factor AFX. *Molecular and Cellular Biology*, **2001**, 21, 3534-46 | 4.8 | 265 |
| 9 | AFX-like Forkhead transcription factors mediate cell-cycle regulation by Ras and PKB through p27kip1. *Nature*, **2000**, 404, 782-7 | 50.4 | 1218 |
| 8 | Direct control of the Forkhead transcription factor AFX by protein kinase B. *Nature*, **1999**, 398, 630-4 | 50.4 | 949 |
| 7 | A light, rather than a heavy solution for hard working hearts. *Journal of Molecular Medicine*, **1999**, 77, 631-3 | 5.5 | |
| 6 | Forkhead transcription factors: new insights into protein kinase B (c-akt) signaling. *Journal of Molecular Medicine*, **1999**, 77, 656-65 | 5.5 | 232 |
| 5 | Forkhead transcription factors: new insights into protein kinase B (c-akt) signaling **1999**, 77, 656 | | 2 |

# List of Publications

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|---|---|---|
| 4 | Spindle checkpoint silencing at kinetochores with submaximal microtubule occupancy | 1 |
| 3 | Cyclin B1 scaffolds MAD1 at the corona to activate the spindle assembly checkpoint | 2 |
| 2 | Chromosomal instability by mutations in a novel specificity factor of the minor spliceosome | 1 |
| 1 | Dynamic Kinetochore Size Regulation Promotes Microtubule Capture and Chromosome Biorientation in Mitosis | 1 |