

Geert J P L Kops

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Forkhead transcription factor FOXO3a protects quiescent cells from oxidative stress. <i>Nature</i> , 2002 , 419, 316-21	50.4	1253
92	AFX-like Forkhead transcription factors mediate cell-cycle regulation by Ras and PKB through p27kip1. <i>Nature</i> , 2000 , 404, 782-7	50.4	1218
91	Direct control of the Forkhead transcription factor AFX by protein kinase B. <i>Nature</i> , 1999 , 398, 630-4	50.4	949
90	On the road to cancer: aneuploidy and the mitotic checkpoint. <i>Nature Reviews Cancer</i> , 2005 , 5, 773-85	31.3	903
89	Sequential cancer mutations in cultured human intestinal stem cells. <i>Nature</i> , 2015 , 521, 43-7	50.4	624
88	Cell cycle and death control: long live Forkheads. <i>Trends in Biochemical Sciences</i> , 2002 , 27, 352-60	10.3	602
87	The forkhead transcription factor FoxO regulates transcription of p27Kip1 and Bim in response to IL-2. <i>Journal of Immunology</i> , 2002 , 168, 5024-31	5.3	503
86	Cell cycle inhibition by FoxO forkhead transcription factors involves downregulation of cyclin D. <i>Molecular and Cellular Biology</i> , 2002 , 22, 7842-52	4.8	455
85	Chromosome segregation errors as a cause of DNA damage and structural chromosome aberrations. <i>Science</i> , 2011 , 333, 1895-8	33.3	401
84	Control of cell cycle exit and entry by protein kinase B-regulated forkhead transcription factors. <i>Molecular and Cellular Biology</i> , 2002 , 22, 2025-36	4.8	371
83	Lethality to human cancer cells through massive chromosome loss by inhibition of the mitotic checkpoint. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 8699-704	11.5	337
82	Inhibition of nuclear import by protein kinase B (Akt) regulates the subcellular distribution and activity of the forkhead transcription factor AFX. <i>Molecular and Cellular Biology</i> , 2001 , 21, 3534-46	4.8	265
81	Survivin is required for a sustained spindle checkpoint arrest in response to lack of tension. <i>EMBO Journal</i> , 2003 , 22, 2934-47	13	236
80	Forkhead transcription factors: new insights into protein kinase B (c-akt) signaling. <i>Journal of Molecular Medicine</i> , 1999 , 77, 656-65	5.5	232
79	Elevating the frequency of chromosome mis-segregation as a strategy to kill tumor cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 19108-13	11.5	231
78	Mps1 phosphorylates Borealin to control Aurora B activity and chromosome alignment. <i>Cell</i> , 2008 , 132, 233-46	56.2	220
77	Centromere-associated protein-E is essential for the mammalian mitotic checkpoint to prevent aneuploidy due to single chromosome loss. <i>Journal of Cell Biology</i> , 2003 , 162, 551-63	7.3	203

76	ZW10 links mitotic checkpoint signaling to the structural kinetochore. <i>Journal of Cell Biology</i> , 2005 , 169, 49-60	7.3	196
75	Integration of kinase and phosphatase activities by BUBR1 ensures formation of stable kinetochore-microtubule attachments. <i>Developmental Cell</i> , 2012 , 23, 745-55	10.2	195
74	Small-molecule kinase inhibitors provide insight into Mps1 cell cycle function. <i>Nature Chemical Biology</i> , 2010 , 6, 359-68	11.7	178
73	Aurora B potentiates Mps1 activation to ensure rapid checkpoint establishment at the onset of mitosis. <i>Nature Communications</i> , 2011 , 2, 316	17.4	165
72	CELL DIVISION CYCLE. Competition between MPS1 and microtubules at kinetochores regulates spindle checkpoint signaling. <i>Science</i> , 2015 , 348, 1264-7	33.3	151
71	Joined at the hip: kinetochores, microtubules, and spindle assembly checkpoint signaling. <i>Trends in Cell Biology</i> , 2015 , 25, 21-8	18.3	133
70	Negative feedback at kinetochores underlies a responsive spindle checkpoint signal. <i>Nature Cell Biology</i> , 2014 , 16, 1257-64	23.4	130
69	Evolutionary dynamics of the kinetochore network in eukaryotes as revealed by comparative genomics. <i>EMBO Reports</i> , 2017 , 18, 1559-1571	6.5	128
68	Oral Mucosal Organoids as a Potential Platform for Personalized Cancer Therapy. <i>Cancer Discovery</i> , 2019 , 9, 852-871	24.4	115
67	Evolution and function of the mitotic checkpoint. <i>Developmental Cell</i> , 2012 , 23, 239-50	10.2	103
66	A TPR domain-containing N-terminal module of MPS1 is required for its kinetochore localization by Aurora B. <i>Journal of Cell Biology</i> , 2013 , 201, 217-31	7.3	100
65	The vertebrate mitotic checkpoint protein BUBR1 is an unusual pseudokinase. <i>Developmental Cell</i> , 2012 , 22, 1321-9	10.2	98
64	Arrayed BUB recruitment modules in the kinetochore scaffold KNL1 promote accurate chromosome segregation. <i>Journal of Cell Biology</i> , 2013 , 203, 943-55	7.3	92
63	Ongoing chromosomal instability and karyotype evolution in human colorectal cancer organoids. <i>Nature Genetics</i> , 2019 , 51, 824-834	36.3	91
62	A molecular basis for the differential roles of Bub1 and BubR1 in the spindle assembly checkpoint. <i>ELife</i> , 2015 , 4, e05269	8.9	91
61	Release of Mps1 from kinetochores is crucial for timely anaphase onset. <i>Journal of Cell Biology</i> , 2010 , 191, 281-90	7.3	88
60	Molecular causes for BUBR1 dysfunction in the human cancer predisposition syndrome mosaic variegated aneuploidy. <i>Cancer Research</i> , 2010 , 70, 4891-900	10.1	85
59	Chemical genetic inhibition of Mps1 in stable human cell lines reveals novel aspects of Mps1 function in mitosis. <i>PLoS ONE</i> , 2010 , 5, e10251	3.7	77

58	Biallelic TRIP13 mutations predispose to Wilms tumor and chromosome missegregation. <i>Nature Genetics</i> , 2017 , 49, 1148-1151	36.3	75
57	Sequential multisite phospho-regulation of KNL1-BUB3 interfaces at mitotic kinetochores. <i>Molecular Cell</i> , 2015 , 57, 824-835	17.6	74
56	A phospho/methyl switch at histone H3 regulates TFIID association with mitotic chromosomes. <i>EMBO Journal</i> , 2010 , 29, 3967-78	13	74
55	Plk1 and Mps1 Cooperatively Regulate the Spindle Assembly Checkpoint in Human Cells. <i>Cell Reports</i> , 2015 , 12, 66-78	10.6	72
54	Chromosomal instability by inefficient Mps1 auto-activation due to a weakened mitotic checkpoint and lagging chromosomes. <i>PLoS ONE</i> , 2008 , 3, e2415	3.7	67
53	Mps1 promotes rapid centromere accumulation of Aurora B. <i>EMBO Reports</i> , 2012 , 13, 847-54	6.5	64
52	Distinct phosphatases antagonize the p53 response in different phases of the cell cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7313-8	11.5	59
51	Attachment issues: kinetochore transformations and spindle checkpoint silencing. <i>Current Opinion in Cell Biology</i> , 2016 , 39, 101-8	9	57
50	Dissecting the roles of human BUB1 in the spindle assembly checkpoint. <i>Journal of Cell Science</i> , 2015 , 128, 2975-82	5.3	56
49	Kinetochore-microtubule attachment is sufficient to satisfy the human spindle assembly checkpoint. <i>Nature Communications</i> , 2015 , 6, 8987	17.4	56
48	Assessing kinetics from fixed cells reveals activation of the mitotic entry network at the S/G2 transition. <i>Molecular Cell</i> , 2014 , 53, 843-53	17.6	53
47	Dynamic kinetochore size regulation promotes microtubule capture and chromosome biorientation in mitosis. <i>Nature Cell Biology</i> , 2018 , 20, 800-810	23.4	50
46	Improving depth in phosphoproteomics by using a strong cation exchange-weak anion exchange-reversed phase multidimensional separation approach. <i>Analytical Chemistry</i> , 2011 , 83, 7137-43	7.8	46
45	Connecting up and clearing out: how kinetochore attachment silences the spindle assembly checkpoint. <i>Chromosoma</i> , 2012 , 121, 509-25	2.8	45
44	Finding the middle ground: how kinetochores power chromosome congression. <i>Cellular and Molecular Life Sciences</i> , 2010 , 67, 2145-61	10.3	45
43	Crystal structure of a PP2A B56-BubR1 complex and its implications for PP2A substrate recruitment and localization. <i>Protein and Cell</i> , 2016 , 7, 516-26	7.2	44
42	Preventing aneuploidy: the contribution of mitotic checkpoint proteins. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2008 , 1786, 24-31	11.2	42
41	Leader of the SAC: molecular mechanisms of Mps1/TTK regulation in mitosis. <i>Open Biology</i> , 2018 , 8,	7	42

40	Human chromosome-specific aneuploidy is influenced by DNA-dependent centromeric features. <i>EMBO Journal</i> , 2020 , 39, e102924	13	41
39	Mosaic origin of the eukaryotic kinetochore. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12873-12882	11.5	38
38	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. <i>Journal of Proteome Research</i> , 2013 , 12, 2214-24	5.6	36
37	Regulation of sterol carrier protein gene expression by the forkhead transcription factor FOXO3a. <i>Journal of Lipid Research</i> , 2004 , 45, 81-8	6.3	36
36	Unique Phylogenetic Distributions of the Ska and Dam1 Complexes Support Functional Analogy and Suggest Multiple Parallel Displacements of Ska by Dam1. <i>Genome Biology and Evolution</i> , 2017 , 9, 1295-1303	3.9	32
35	The kinetochore and spindle checkpoint in mammals. <i>Frontiers in Bioscience - Landmark</i> , 2008 , 13, 3606-208		31
34	Difference Makers: Chromosomal Instability versus Aneuploidy in Cancer. <i>Trends in Cancer</i> , 2016 , 2, 561-571		31
33	Degree and site of chromosomal instability define its oncogenic potential. <i>Nature Communications</i> , 2020 , 11, 1501	17.4	30
32	Conditional targeting of MAD1 to kinetochores is sufficient to reactivate the spindle assembly checkpoint in metaphase. <i>Chromosoma</i> , 2014 , 123, 471-80	2.8	30
31	Cyclin B1 scaffolds MAD1 at the kinetochore corona to activate the mitotic checkpoint. <i>EMBO Journal</i> , 2020 , 39, e103180	13	24
30	Widespread Recurrent Patterns of Rapid Repeat Evolution in the Kinetochore Scaffold KNL1. <i>Genome Biology and Evolution</i> , 2015 , 7, 2383-93	3.9	23
29	Centromere binding and a conserved role in chromosome stability for SUMO-dependent ubiquitin ligases. <i>PLoS ONE</i> , 2013 , 8, e65628	3.7	23
28	APC16 is a conserved subunit of the anaphase-promoting complex/cyclosome. <i>Journal of Cell Science</i> , 2010 , 123, 1623-33	5.3	23
27	Phylogenomics-guided discovery of a novel conserved cassette of short linear motifs in BubR1 essential for the spindle checkpoint. <i>Open Biology</i> , 2016 , 6,	7	23
26	Crowning the Kinetochore: The Fibrous Corona in Chromosome Segregation. <i>Trends in Cell Biology</i> , 2020 , 30, 653-667	18.3	18
25	Kinetochore Malfunction in Human Pathologies. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 1002, 69-91	3.6	13
24	Evolutionary Dynamics of the Spindle Assembly Checkpoint in Eukaryotes. <i>Current Biology</i> , 2020 , 30, R589-R602	6.3	13
23	The molecular basis of monopolin recruitment to the kinetochore. <i>Chromosoma</i> , 2019 , 128, 331-354	2.8	12

22	Live imaging of cell division in 3D stem-cell organoid cultures. <i>Methods in Cell Biology</i> , 2018 , 145, 91-106	1.8	11
21	Ectopic Activation of the Spindle Assembly Checkpoint Signaling Cascade Reveals Its Biochemical Design. <i>Current Biology</i> , 2019 , 29, 104-119.e10	6.3	11
20	Spindle checkpoint silencing at kinetochores with submaximal microtubule occupancy. <i>Journal of Cell Science</i> , 2019 , 132,	5.3	10
19	Inferring the Evolutionary History of Your Favorite Protein: A Guide for Molecular Biologists. <i>BioEssays</i> , 2019 , 41, e1900006	4.1	8
18	A Biosensor for the Mitotic Kinase MPS1 Reveals Spatiotemporal Activity Dynamics and Regulation. <i>Current Biology</i> , 2020 , 30, 3862-3870.e6	6.3	8
17	Cell division: SACing the anaphase problem. <i>Current Biology</i> , 2014 , 24, R224-6	6.3	7
16	Dividing the goods: co-ordination of chromosome biorientation and mitotic checkpoint signalling by mitotic kinases. <i>Biochemical Society Transactions</i> , 2009 , 37, 971-5	5.1	7
15	Chromosomal copy number heterogeneity predicts survival rates across cancers. <i>Nature Communications</i> , 2021 , 12, 3188	17.4	6
14	BCL-XL is crucial for progression through the adenoma-to-carcinoma sequence of colorectal cancer. <i>Cell Death and Differentiation</i> , 2021 , 28, 3282-3296	12.7	6
13	Reconstructing single-cell karyotype alterations in colorectal cancer identifies punctuated and gradual diversification patterns. <i>Nature Genetics</i> , 2021 , 53, 1187-1195	36.3	6
12	Interactions between N-terminal Modules in MPS1 Enable Spindle Checkpoint Silencing. <i>Cell Reports</i> , 2019 , 26, 2101-2112.e6	10.6	5
11	Chromosomal instability by mutations in the novel minor spliceosome component CENATAC. <i>EMBO Journal</i> , 2021 , 40, e106536	13	4
10	Studying Kinetochore Kinases. <i>Methods in Molecular Biology</i> , 2016 , 1413, 333-47	1.4	4
9	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. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 657366	5.7	3
8	Genomic analysis finds no evidence of canonical eukaryotic DNA processing complexes in a free-living protist. <i>Nature Communications</i> , 2021 , 12, 6003	17.4	2
7	Cyclin B1 scaffolds MAD1 at the corona to activate the spindle assembly checkpoint		2
6	Forkhead transcription factors: new insights into protein kinase B (c-akt) signaling		2
5	Collateral genome instability by DNA damage in mitosis. <i>Cancer Discovery</i> , 2014 , 4, 1256-8	24.4	1

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| 4 | Spindle checkpoint silencing at kinetochores with submaximal microtubule occupancy | 1 |
| 3 | Chromosomal instability by mutations in a novel specificity factor of the minor spliceosome | 1 |
| 2 | Dynamic Kinetochores Size Regulation Promotes Microtubule Capture and Chromosome Biorientation in Mitosis | 1 |
| 1 | A light, rather than a heavy solution for hard working hearts. <i>Journal of Molecular Medicine</i> , 1999, 77, 631-3 | 5-5 |