Mark Petronczki

List of Publications by Year
in descending order

51 papers	7,807 citations	76326 40 h-index	182427 51 g-index
56 all docs	56 docs citations	56 times ranked	8576 citing authors

#	Article	IF	Citations
1	Expanding the Reach of Precision Oncology by Drugging All <i>KRAS</i> Mutants. Cancer Discovery, 2022, 12, 924-937.	9.4	110
2	BI-3406, a Potent and Selective SOS1â€"KRAS Interaction Inhibitor, Is Effective in KRAS-Driven Cancers through Combined MEK Inhibition. Cancer Discovery, 2021, 11, 142-157.	9.4	223
3	Acute BAF perturbation causes immediate changes in chromatin accessibility. Nature Genetics, 2021, 53, 269-278.	21.4	103
4	Structure of the helicase core of Werner helicase, a key target in microsatellite instability cancers. Life Science Alliance, 2021, 4, e202000795.	2.8	12
5	F-Actin Interactome Reveals Vimentin as a Key Regulator of Actin Organization and Cell Mechanics in Mitosis. Developmental Cell, 2020, 52, 210-222.e7.	7.0	70
6	Cell Division: Switching On ECT2 in a Non-Canonical Fashion. Current Biology, 2020, 30, R947-R949.	3.9	2
7	Cep55 promotes cytokinesis of neural progenitors but is dispensable for most mammalian cell divisions. Nature Communications, 2020, 11, 1746.	12.8	37
8	STAG1 vulnerabilities for exploiting cohesin synthetic lethality in STAG2-deficient cancers. Life Science Alliance, 2020, 3, e202000725.	2.8	19
9	Systematic characterization of BAF mutations provides insights into intracomplex synthetic lethalities in human cancers. Nature Genetics, 2019, 51, 1399-1410.	21.4	92
10	SMARCA2-deficiency confers sensitivity to targeted inhibition of SMARCA4 in esophageal squamous cell carcinoma cell lines. Scientific Reports, 2019, 9, 11661.	3.3	25
11	Fragment-based discovery of a chemical probe for the PWWP1 domain of NSD3. Nature Chemical Biology, 2019, 15, 822-829.	8.0	59
12	Start Selective and Rigidify: The Discovery Path toward a Next Generation of EGFR Tyrosine Kinase Inhibitors. Journal of Medicinal Chemistry, 2019, 62, 10272-10293.	6.4	89
13	Tumor clonality and resistance mechanisms in <i>EGFR</i> mutation-positive non-small-cell lung cancer: implications for therapeutic sequencing. Future Oncology, 2019, 15, 637-652.	2.4	80
14	Werner syndrome helicase is a selective vulnerability of microsatellite instability-high tumor cells. ELife, 2019, 8, .	6.0	80
15	RIOK1 kinase activity is required for cell survival irrespective of <i>MTAP</i> status. Oncotarget, 2018, 9, 28625-28637.	1.8	15
16	APC/C Dysfunction Limits Excessive Cancer Chromosomal Instability. Cancer Discovery, 2017, 7, 218-233.	9.4	87
17	Synthetic lethality between the cohesin subunits STAG1 and STAG2 in diverse cancer contexts. ELife, 2017, 6, .	6.0	94
18	Actomyosin drives cancer cell nuclear dysmorphia and threatens genome stability. Nature Communications, 2017, 8, 16013.	12.8	87

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19	Plasma Membrane Association but Not Midzone Recruitment of RhoGEF ECT2 Is Essential for Cytokinesis. Cell Reports, 2016, 17, 2672-2686.	6.4	56
20	Cytokinesis in Animal Cells. Cold Spring Harbor Perspectives in Biology, 2015, 7, a015834.	5.5	168
21	Aurora B Kinase Promotes Cytokinesis by Inducing Centralspindlin Oligomers that Associate with the Plasma Membrane. Developmental Cell, 2015, 33, 204-215.	7.0	95
22	Functional genomics identifies a requirement of preâ€m<scp>RNA</scp> splicing factors for sister chromatid cohesion. EMBO Journal, 2014, 33, 2623-2642.	7.8	51
23	An astral simulacrum of the central spindle accounts for normal, spindle-less, and anucleate cytokinesis in echinoderm embryos. Molecular Biology of the Cell, 2014, 25, 4049-4062.	2.1	45
24	Cdk1 Inactivation Terminates Mitotic Checkpoint Surveillance and Stabilizes Kinetochore Attachments in Anaphase. Current Biology, 2014, 24, 638-645.	3.9	92
25	Born Equal: Dual Safeguards for Daughter Cell Size Symmetry. Cell, 2013, 154, 269-271.	28.9	1
26	Centralspindlin links the mitotic spindle to the plasma membrane during cytokinesis. Nature, 2012, 492, 276-279.	27.8	131
27	ESCRTing DNA at the Cleavage Site During Cytokinesis. Science, 2012, 336, 166-167.	12.6	2
28	Targeting of the RhoGEF Ect2 to the Equatorial Membrane Controls Cleavage Furrow Formation during Cytokinesis. Developmental Cell, 2011, 21, 1104-1115.	7.0	157
29	Meiotic nuclear divisions in budding yeast require PP2ACdc55-mediated antagonism of Net1 phosphorylation by Cdk. Journal of Cell Biology, 2011, 193, 1157-1166.	5.2	21
30	The â€˜anaphase problemâ€™: how to disable the mitotic checkpoint when sisters split. Biochemical Society Transactions, 2010, 38, 1660-1666.	3.4	14
31	Relocation of the Chromosomal Passenger Complex Prevents Mitotic Checkpoint Engagement at Anaphase. Current Biology, 2010, 20, 1402-1407.	3.9	62
32	The breast cancer tumor suppressor BRCA2 promotes the specific targeting of RAD51 to single-stranded DNA. Nature Structural and Molecular Biology, 2010, 17, 1263-1265.	8.2	217
33	Evidence that the tumor-suppressor protein BRCA2 does not regulate cytokinesis in human cells. Journal of Cell Science, 2010, 123, 1395-1400.	2.0	28
34	Polo-Like Kinase 1 Directs Assembly of the HsCyk-4 RhoGAP/Ect2 RhoGEF Complex to Initiate Cleavage Furrow Formation. PLoS Biology, 2009, 7, e1000110.	5.6	191
35	Polo-like kinase 1 reaches beyond mitosisâ€”cytokinesis, DNA damage response, and development. Current Opinion in Cell Biology, 2008, 20, 650-660.	5.4	153
36	Polo on the Riseâ€”from Mitotic Entry to Cytokinesis with Plk1. Developmental Cell, 2008, 14, 646-659.	7.0	442

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37	Polo-like Kinase 1 Triggers the Initiation of Cytokinesis in Human Cells by Promoting Recruitment of the RhoGEF Ect2 to the Central Spindle. Developmental Cell, 2007, 12, 713-725.	7.0	257
38	Tandem affinity purification of functional TAP-tagged proteins from human cells. Nature Protocols, 2007, 2, 1145-1151.	12.0	57
39	BI 2536, a Potent and Selective Inhibitor of Polo-like Kinase 1, Inhibits Tumor Growth In Vivo. Current Biology, 2007, 17, 316-322.	3.9	748
40	The Small-Molecule Inhibitor BI 2536 Reveals Novel Insights into Mitotic Roles of Polo-like Kinase 1. Current Biology, 2007, 17, 304-315.	3.9	627
41	Monopolar Attachment of Sister Kinetochores at Meiosis I Requires Casein Kinase 1. Cell, 2006, 126, 1049-1064.	28.9	168
42	Protein phosphatase 2A protects centromeric sister chromatid cohesion during meiosis I. Nature, 2006, 441, 53-61.	27.8	419
43	Sister-chromatid cohesion mediated by the alternative RF-CCtf18/Dcc1/Ctf8, the helicase Chl1 and the polymerase-Î±-associated protein Ctf4 is essential for chromatid disjunction during meiosis II. Journal of Cell Science, 2004, 117, 3547-3559.	2.0	130
44	Sequential Roles of Cdc42, Par-6, aPKC, and Lgl in the Establishment of Epithelial Polarity during Drosophila Embryogenesis. Developmental Cell, 2004, 6, 845-854.	7.0	307
45	Kinetochore Recruitment of Two Nucleolar Proteins Is Required for Homolog Segregation in Meiosis I. Developmental Cell, 2003, 4, 535-548.	7.0	201
46	Un MÃ©nage Ã Quatre. Cell, 2003, 112, 423-440.	28.9	679
47	Division of the Nucleolus and Its Release of CDC14 during Anaphase of Meiosis I Depends on Separase, SPO12, and SLK19. Developmental Cell, 2003, 4, 727-739.	7.0	115
48	Heterotrimeric G Proteins Direct Two Modes of Asymmetric Cell Division in the Drosophila Nervous System. Cell, 2001, 107, 183-194.	28.9	291
49	DmPAR-6 directs epithelial polarity and asymmetric cell division of neuroblasts in Drosophila. Nature Cell Biology, 2001, 3, 43-49.	10.3	377
50	Bazooka and PAR-6 are required with PAR-1 for the maintenance of oocyte fate in Drosophila. Current Biology, 2001, 11, 901-906.	3.9	88
51	Barentsz is essential for the posterior localization of oskar mRNA and colocalizes with it to the posterior pole. Journal of Cell Biology, 2001, 154, 511-524.	5.2	131