Philipp Kaldis

List of Publications by Year
in descending order

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143	9,973	47006	38395
papers	citations	47	95
		h-index	g-index

200	200	200	14324
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cdks, cyclins and CKIs: roles beyond cell cycle regulation. Development (Cambridge), 2013, 140, 3079-3093.	2.5	1,164
2	Mammalian cell-cycle regulation: several Cdks, numerous cyclins and diverse compensatory mechanisms. Oncogene, 2009, 28, 2925-2939.	5.9	650
3	Cdk2 Knockout Mice Are Viable. Current Biology, 2003, 13, 1775-1785.	3.9	623
4	Glycine Decarboxylase Activity Drives Non-Small Cell Lung Cancer Tumor-Initiating Cells and Tumorigenesis. Cell, 2012, 148, 259-272.	28.9	593
5	Cdc2â€“cyclin E complexes regulate the G1/S phase transition. Nature Cell Biology, 2005, 7, 831-836.	10.3	345
6	Cyclin-dependent kinase 1 (Cdk1) is essential for cell division and suppression of DNA re-replication but not for liver regeneration. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3826-3831.	7.1	301
7	Loss of centrosome integrity induces p38â€”p53â€”p21-dependent G1â€”S arrest. Nature Cell Biology, 2007, 9, 160-170.	10.3	276
8	The Cdk-Activating Kinase (CAK) from Budding Yeast. Cell, 1996, 86, 553-564.	28.9	219
9	The cdk-activating kinase (CAK): from yeast to mammals. Cellular and Molecular Life Sciences, 1999, 55, 284-296.	5.4	200
10	Kinase-Independent Function of Cyclin E. Molecular Cell, 2007, 25, 127-139.	9.7	161
11	Thermal proximity coaggregation for system-wide profiling of protein complex dynamics in cells. Science, 2018, 359, 1170-1177.	12.6	161
12	Dephosphorylation of cyclin-dependent kinases by type 2C protein phosphatases. Genes and Development, 1999, 13, 2946-2957.	5.9	146
13	Combined Loss of Cdk2 and Cdk4 Results in Embryonic Lethality and Rb Hypophosphorylation. Developmental Cell, 2006, 10, 563-573.	7.0	141
14	p21 Inhibits Cdk1 in the Absence of Cdk2 to Maintain the G1/S Phase DNA Damage Checkpoint. Molecular Biology of the Cell, 2008, 19, 65-77.	2.1	129
15	p27kip1 (Cyclin-Dependent Kinase Inhibitor 1B) Controls Ovarian Development by Suppressing Follicle Endowment and Activation and Promoting Follicle Atresia in Mice. Molecular Endocrinology, 2007, 21, 2189-2202.	3.7	126
16	Cdk1, but not Cdk2, is the sole Cdk that is essential and sufficient to drive resumption of meiosis in mouse oocytes. Human Molecular Genetics, 2012, 21, 2476-2484.	2.9	119
17	Modulation of Protein-Interaction States through the Cell Cycle. Cell, 2018, 173, 1481-1494.e13.	28.9	116
18	Identification of Transcriptional and Metabolic Programs Related to Mammalian Cell Size. Current Biology, 2014, 24, 598-608.	3.9	108

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19	The Metastasis-Associated Gene Prl-3 Is a p53 Target Involved in Cell-Cycle Regulation. Molecular Cell, 2008, 30, 303-314.	9.7	104
20	Human and Yeast Cdk-activating Kinases (CAKs) Display Distinct Substrate Specificities. Molecular Biology of the Cell, 1998, 9, 2545-2560.	2.1	102
21	Loss of Cdk2 and Cyclin A2 Impairs Cell Proliferation and Tumorigenesis. Cancer Research, 2014, 74, 3870-3879.	0.9	99
22	Transforming growth factor Î² targeted inactivation of cyclin E:cyclin-dependent kinase 2 (Cdk2) complexes by inhibition of Cdk2 activating kinase activity. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 14961-14966.	7.1	97
23	IFN-gamma AU-rich element removal promotes chronic IFN-gamma expression and autoimmunity in mice. Journal of Autoimmunity, 2014, 53, 33-45.	6.5	95
24	Dephosphorylation of Human Cyclin-dependent Kinases by Protein Phosphatase Type 2CÎ± and Î²2 Isoforms. Journal of Biological Chemistry, 2000, 275, 34744-34749.	3.4	90
25	Dependence of Cisplatin-Induced Cell Death In Vitro and In Vivo on Cyclin-Dependent Kinase 2. Journal of the American Society of Nephrology: JASN, 2006, 17, 2434-2442.	6.1	90
26	'Hot Spots' of Creatine Kinase Localization in Brain: Cerebellum, Hippocampus and Choroid Plexus. Developmental Neuroscience, 1996, 18, 542-554.	2.0	89
27	Metabolic Remodeling during Liver Regeneration. Developmental Cell, 2018, 47, 425-438.e5.	7.0	86
28	IL-7 promotes T cell proliferation through destabilization of p27Kip1. Journal of Experimental Medicine, 2006, 203, 573-582.	8.5	85
29	Cell-specific responses to loss of cyclin-dependent kinases. Oncogene, 2007, 26, 4469-4477.	5.9	85
30	Cell Cycle Sibling Rivalry: Cdc2 Versus Cdk2. Cell Cycle, 2005, 4, 1491-1494.	2.6	82
31	Cdk2 is critical for proliferation and self-renewal of neural progenitor cells in the adult subventricular zone. Journal of Cell Biology, 2007, 179, 1231-1245.	5.2	82
32	The Complex Relationship between Liver Cancer and the Cell Cycle: A Story of Multiple Regulations. Cancers, 2014, 6, 79-111.	3.7	82
33	Cdk2 and Cdk4 Regulate the Centrosome Cycle and Are Critical Mediators of Centrosome Amplification in p53-Null Cells. Molecular and Cellular Biology, 2010, 30, 694-710.	2.3	81
34	In vitro complex formation between the octamer of mitochondrial creatine kinase and porin. Journal of Biological Chemistry, 1994, 269, 27640-4.	3.4	79
35	Identification of Yin-Yang Regulators and a Phosphorylation Consensus for Male Germ Cell-Associated Kinase (MAK)-Related Kinase. Molecular and Cellular Biology, 2006, 26, 8639-8654.	2.3	76
36	Cell Cycle-Dependent Phosphorylation of C/EBPÎ² Mediates Oncogenic Cooperativity between C/EBPÎ² and H-Ras V12. Molecular and Cellular Biology, 2004, 24, 7380-7391.	2.3	72

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37	Loss of Cdk2 and Cdk4 Induces a Switch from Proliferation to Differentiation in Neural Stem Cells. Stem Cells, 2012, 30, 1509-1520.	3.2	71
38	Activation of a Nuclear Cdc2-Related Kinase within a Mitogen-Activated Protein Kinase-Like TDY Motif by Autophosphorylation and Cyclin-Dependent Protein Kinase-Activating Kinase. Molecular and Cellular Biology, 2005, 25, 6047-6064.	2.3	65
39	Another Piece of the p27Kip1 Puzzle. Cell, 2007, 128, 241-244.	28.9	65
40	Down-regulation of Myc Is Essential for Terminal Erythroid Maturation. Journal of Biological Chemistry, 2010, 285, 40252-40265.	3.4	63
41	Established and Novel Cdk/Cyclin Complexes Regulating the Cell Cycle and Development. Results and Problems in Cell Differentiation, 2011, 53, 365-389.	0.7	63
42	Genetic substitution of Cdk1 by Cdk2 leads to embryonic lethality and loss of meiotic function of Cdk2. Development (Cambridge), 2008, 135, 3389-3400.	2.5	62
43	TLR3 agonist and Sorafenib combinatorial therapy promotes immune activation and controls hepatocellular carcinoma progression. Oncotarget, 2015, 6, 27252-27266.	1.8	60
44	Speedy Aâ€“Cdk2 binding mediates initial telomereâ€“nuclear envelope attachment during meiotic prophase I independent of Cdk2 activation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 592-597.	7.1	58
45	A dual role of Cdk2 in DNA damage response. Cell Division, 2009, 4, 9.	2.4	57
46	Combination of nutlin-3 and VX-680 selectively targets p53 mutant cells with reversible effects on cells expressing wild-type p53. Cell Death and Differentiation, 2010, 17, 1486-1500.	11.2	57
47	Premature activation of Cdk1 leads to mitotic events in S phase and embryonic lethality. Oncogene, 2019, 38, 998-1018.	5.9	56
48	The three cytokines IL-1Î², IL-18, and IL-1Î± share related but distinct secretory routes. Journal of Biological Chemistry, 2019, 294, 8325-8335.	3.4	52
49	Cell size control â€“ a mechanism for maintaining fitness and function. BioEssays, 2017, 39, 1700058.	2.5	51
50	A haploid genetic screen identifies the G₁/S regulatory machinery as a determinant of Wee1 inhibitor sensitivity. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15160-15165.	7.1	50
51	Regulation of CDKs by phosphorylation. Results and Problems in Cell Differentiation, 1998, 22, 79-109.	0.7	50
52	Activating Phosphorylation of the Kin28p Subunit of Yeast TFIIH by Cak1p. Molecular and Cellular Biology, 1999, 19, 4774-4787.	2.3	49
53	Analysis of CAK activities from human cells. FEBS Journal, 2000, 267, 4213-4221.	0.2	48
54	Wnt Signaling in Mitosis. Developmental Cell, 2009, 17, 749-750.	7.0	48

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55	Dual roles of TRF1 in tethering telomeres to the nuclear envelope and protecting them from fusion during meiosis. Cell Death and Differentiation, 2018, 25, 1174-1188.	11.2	48
56	CAK-independent Activation of CDK6 by a Viral Cyclin. Molecular Biology of the Cell, 2001, 12, 3987-3999.	2.1	46
57	Emi2 Is Essential for Mouse Spermatogenesis. Cell Reports, 2017, 20, 697-708.	6.4	45
58	The N-terminal heptapeptide of mitochondrial creatine kinase is important for octamerization. Biochemistry, 1994, 33, 952-959.	2.5	44
59	CAK1 Promotes Meiosis and Spore Formation in Saccharomyces cerevisiae in a CDC28 -Independent Fashion. Molecular and Cellular Biology, 2002, 22, 57-68.	2.3	43
60	Inhibitory phosphorylation of Cdk1 mediates prolonged prophase I arrest in female germ cells and is essential for female reproductive lifespan. Cell Research, 2016, 26, 1212-1225.	12.0	41
61	Loss of Cyclin-dependent Kinase 2 in the Pancreas Links Primary Î²-Cell Dysfunction to Progressive Depletion of Î²-Cell Mass and Diabetes. Journal of Biological Chemistry, 2017, 292, 3841-3853.	3.4	41
62	Sil Phosphorylation in a Pin1 Binding Domain Affects the Duration of the Spindle Checkpoint. Molecular and Cellular Biology, 2005, 25, 6660-6672.	2.3	40
63	Activating Phosphorylation of theSaccharomyces cerevisiaeCyclin-dependent Kinase, Cdc28p, Precedes Cyclin Binding. Molecular Biology of the Cell, 2000, 11, 1597-1609.	2.1	38
64	Rb/Cdk2/Cdk4 triple mutant mice elicit an alternative mechanism for regulation of the G ₁ /S transition. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 486-491.	7.1	36
65	Cdk2 plays a critical role in hepatocyte cell cycle progression and survival in the setting of cyclin D1 expression in vivo. Cell Cycle, 2009, 8, 2802-2809.	2.6	36
66	Cell cycle regulation in NAFLD: when imbalanced metabolism limits cell division. Hepatology International, 2020, 14, 463-474.	4.2	36
67	Therapeutic targeting of the mitochondrial one-carbon pathway: perspectives, pitfalls, and potential. Oncogene, 2021, 40, 2339-2354.	5.9	36
68	Lymphatic dysfunction in transgenic mice expressing KSHV k-cyclin under the control of the VEGFR-3 promoter. Blood, 2005, 105, 2356-2363.	1.4	35
69	Cdk2 and Cdk4 cooperatively control the expression of Cdc2. Cell Division, 2006, 1, 10.	2.4	35
70	PRKAR1A Inactivation Leads to Increased Proliferation and Decreased Apoptosis in Human B Lymphocytes. Cancer Research, 2006, 66, 10603-10612.	0.9	35
71	MEN1 tumorigenesis in the pituitary and pancreatic islet requires Cdk4 but not Cdk2. Oncogene, 2015, 34, 932-938.	5.9	35
72	CDK10 Mutations in Humans and Mice Cause Severe Growth Retardation, Spine Malformations, and Developmental Delays. American Journal of Human Genetics, 2017, 101, 391-403.	6.2	35

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73	Cdk2 as a Master of S phase Entry: Fact or Fake?. Cell Cycle, 2004, 3, 34-36.	2.6	32
74	Loss of the Greatwall Kinase Weakens the Spindle Assembly Checkpoint. PLoS Genetics, 2016, 12, e1006310.	3.5	32
75	Mastl is required for timely activation of APC/C in meiosis I and Cdk1 reactivation in meiosis II. Journal of Cell Biology, 2014, 206, 843-853.	5.2	31
76	XenopusCdc7 executes its essential function early in S phase and is counteracted by checkpoint-regulated protein phosphatase 1. Open Biology, 2014, 4, 130138.	3.6	31
77	Cdk2 and Cdk4 Activities Are Dispensable for Tumorigenesis Caused by the Loss of p53. Molecular and Cellular Biology, 2009, 29, 2582-2593.	2.3	30
78	Biochemical characterization of Cdk2-Speedy/Ringo A2. BMC Biochemistry, 2005, 6, 19.	4.4	29
79	Diverse roles for CDKâ€associated activity during spermatogenesis. FEBS Letters, 2019, 593, 2925-2949.	2.8	29
80	Loss of hepatocyte cell division leads to liver inflammation and fibrosis. PLoS Genetics, 2020, 16, e1009084.	3.5	29
81	Cdk2 catalytic activity is essential for meiotic cell division in vivo. Biochemical Journal, 2016, 473, 2783-2798.	3.7	28
82	p205, A potential tumor suppressor, inhibits cell proliferation via multiple pathways of cell cycle regulation. FEBS Letters, 2006, 580, 1205-1214.	2.8	27
83	Hematopoiesis and Thymic Apoptosis Are Not Affected by the Loss of Cdk2. Molecular and Cellular Biology, 2007, 27, 5079-5089.	2.3	26
84	Regulation of the Embryonic Cell Cycle During Mammalian Preimplantation Development. Current Topics in Developmental Biology, 2016, 120, 1-53.	2.2	25
85	Functions of Creatine Kinase Isoenzymes in Spermatozoa. Advances in Developmental Biology (1992), 1997, , 275-312.	1.1	24
86	CDK2 is Dispensable for Adult Hippocampal Neurogenesis. Cell Cycle, 2007, 6, 3065-3069.	2.6	24
87	The Indispensable Role of Cyclin-Dependent Kinase 1 in Skeletal Development. Scientific Reports, 2016, 6, 20622.	3.3	24
88	Discovery of a chemical probe for PRDM9. Nature Communications, 2019, 10, 5759.	12.8	24
89	Cyclin-dependent kinase 2 signaling regulates myocardial ischemia/reperfusion injury. Journal of Molecular and Cellular Cardiology, 2008, 45, 610-616.	1.9	23
90	Cdk2-Null Mice Are Resistant to ErbB-2-Induced Mammary Tumorigenesis. Neoplasia, 2011, 13, 439-444.	5.3	23

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91	Hematopoiesis specific loss of Cdk2 and Cdk4 results in increased erythrocyte size and delayed platelet recovery following stress. Haematologica, 2015, 100, 431-438.	3.5	23
92	Impairing Cohesin Smc1/3 Head Engagement Compensates for the Lack of Eco1 Function. Structure, 2016, 24, 1991-1999.	3.3	23
93	A novel function for CDK2 activity at meiotic crossover sites. PLoS Biology, 2020, 18, e3000903.	5.6	22
94	Pathophysiology of type 2 diabetes and the impact of altered metabolic interorgan crosstalk. FEBS Journal, 2023, 290, 620-648.	4.7	22
95	Mouse Models of Cell Cycle Regulators: New Paradigms. , 2006, 42, 271-328.		20
96	Evolution of the Cdk-activator Speedy/RINGO in vertebrates. Cellular and Molecular Life Sciences, 2012, 69, 3835-3850.	5.4	20
97	PRDM15 is a key regulator of metabolism critical to sustain B-cell lymphomagenesis. Nature Communications, 2020, 11, 3520.	12.8	20
98	Cell Division, a new open access online forum for and from the cell cycle community. , 2006, 1, 1.		19
99	CDK2 Is Required By MYC to Induce Apoptosis. Cell Cycle, 2006, 5, 1342-1347.	2.6	19
100	Degradation of BRCA2 in Alkyltransferase-Mediated DNA Repair and Its Clinical Implications. Cancer Research, 2008, 68, 9973-9981.	0.9	19
101	Knockout of the non-essential gene SUGCT creates diet-linked, age-related microbiome disbalance with a diabetes-like metabolic syndrome phenotype. Cellular and Molecular Life Sciences, 2020, 77, 3423-3439.	5.4	19
102	The CDK-activating Kinase (Cak1p) from Budding Yeast Has an Unusual ATP-binding Pocket. Journal of Biological Chemistry, 1999, 274, 1949-1956.	3.4	18
103	Cyclin-Dependent Kinase-Dependent Phosphorylation of Sox2 at Serine 39 Regulates Neurogenesis. Molecular and Cellular Biology, 2017, 37, .	2.3	18
104	The Effects of Changing the Site of Activating Phosphorylation in CDK2 from Threonine to Serine. Journal of Biological Chemistry, 2000, 275, 32578-32584.	3.4	17
105	When cell cycle meets development. Development (Cambridge), 2012, 139, 225-230.	2.5	17
106	Cyclin-Dependent Kinase 1 Is Essential for Muscle Regeneration and Overload Muscle Fiber Hypertrophy. Frontiers in Cell and Developmental Biology, 2020, 8, 564581.	3.7	17
107	Less-well known functions of cyclin/CDK complexes. Seminars in Cell and Developmental Biology, 2020, 107, 54-62.	5.0	17
108	Protective Functions of ZO-2/Tjp2 Expressed in Hepatocytes and Cholangiocytes Against Liver Injury and Cholestasis. Gastroenterology, 2021, 160, 2103-2118.	1.3	17

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109	Genetic and pharmacological inhibition of Cdk1 provides neuroprotection towards ischemic neuronal death. Cell Death Discovery, 2018, 4, 43.	4.7	16
110	Enforcing the Greatwall in Mitosis. Science, 2010, 330, 1638-1639.	12.6	15
111	CDK2 kinase activity is a regulator of male germ cell fate. Development (Cambridge), 2019, 146, .	2.5	15
112	Remodeling of whole-body lipid metabolism and a diabetic-like phenotype caused by loss of CDK1 and hepatocyte division. ELife, 2020, 9, .	6.0	15
113	Infertility-Causing Haploinsufficiency Reveals TRIM28/KAP1 Requirement in Spermatogonia. Stem Cell Reports, 2020, 14, 818-827.	4.8	14
114	Cdk2 as a master of S phase entry: fact or fake?. Cell Cycle, 2004, 3, 35-7.	2.6	14
115	p27 is regulated independently of Skp2 in the absence of Cdk2. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 436-445.	4.1	13
116	Loss of cyclin-dependent kinase 1 impairs bone formation, but does not affect the bone-anabolic effects of parathyroid hormone. Journal of Biological Chemistry, 2018, 293, 19387-19399.	3.4	13
117	Glycine Decarboxylase Activity Drives Non-Small Cell Lung Cancer Tumor-Initiating Cells and Tumorigenesis. Cell, 2012, 148, 1066.	28.9	12
118	MetaboKit: a comprehensive data extraction tool for untargeted metabolomics. Molecular Omics, 2020, 16, 436-447.	2.8	12
119	Kinetic Analysis of the Cyclin-dependent Kinase-activating Kinase (Cak1p) from Budding Yeast. Journal of Biological Chemistry, 2000, 275, 33267-33271.	3.4	11
120	CDK2 regulates the NRF1/Ehmt1 axis during meiotic prophase I. Journal of Cell Biology, 2019, 218, 2896-2918.	5.2	10
121	Quo Vadis Cell Growth and Division?. Frontiers in Cell and Developmental Biology, 2016, 4, 95.	3.7	9
122	The Greatwall kinase safeguards the genome integrity by affecting the kinome activity in mitosis. Oncogene, 2020, 39, 6816-6840.	5.9	9
123	Cyclin A2 regulates erythrocyte morphology and numbers. Cell Cycle, 2016, 15, 3070-3081.	2.6	8
124	Cascading proton transfers are a hallmark of the catalytic mechanism of SAMâ€dependent methyltransferases. FEBS Letters, 2020, 594, 2128-2139.	2.8	8
125	The N-terminal Peptide of the Kaposi's Sarcoma-associated Herpesvirus (KSHV)-cyclin Determines Substrate Specificity. Journal of Biological Chemistry, 2005, 280, 11165-11174.	3.4	7
126	Pairing structural reconstruction with catalytic competence to evaluate the mechanisms of key enzymes in the folateâ€mediated oneâ€carbon pathway. FEBS Journal, 2023, 290, 2279-2291.	4.7	7

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127	Genetic mouse models to investigate cell cycle regulation. Transgenic Research, 2009, 18, 491-498.	2.4	6
128	Role of cyclin-dependent kinase 2 in the progression of mouse juvenile cystic kidney disease. Laboratory Investigation, 2020, 100, 696-711.	3.7	6
129	MASTL is essential for anaphase entry of proliferating primordial germ cells and establishment of female germ cells in mice. Cell Discovery, 2017, 3, 16052.	6.7	5
130	Cell cycle transitions and Cdk inhibition in melanoma therapy: Cyclin' through the options. Cell Cycle, 2011, 10, 1349-1349.	2.6	3
131	Cyclin E1 regulates hematopoietic stem cell quiescence. Cell Cycle, 2013, 12, 3588-3588.	2.6	2
132	p57Kip2 regulates T-cell development and lymphoma. Blood, 2014, 123, 3370-3371.	1.4	2
133	Histidine protonation states are key in the LigI catalytic reaction mechanism. Proteins: Structure, Function and Bioinformatics, 2021, , .	2.6	2
134	Mastl/PP2A regulate Cdk1 in ooycte maturation. Oncotarget, 2015, 6, 18734-18735.	1.8	2
135	The catalytic mechanism of the mitochondrial methylenetetrahydrofolate dehydrogenase/cyclohydrolase (MTHFD2). PLoS Computational Biology, 2022, 18, e1010140.	3.2	2
136	The Speedy A, Cdk2, p27 triangle. Cell Cycle, 2016, 15, 489-490.	2.6	1
137	NF-ÎB as a Potential Molecular Target for Therapy of Gastrointestinal Cancers. , 2017, , 189-212.		1
138	Abstract 4303: Modulation of protein interaction states through the cell cycle. , 2018, , .		1
139	Spy1/SpeedyA accelerates neuroblastoma. Oncotarget, 2014, 5, 6554-6555.	1.8	1
140	Impaired hepatocyte cell division induces progenitor cell activation and emergence of bi-phenotypic hepatocytes. Journal of Hepatology, 2020, 73, S113-S114.	3.7	0
141	IL-7 promotes T cell proliferation through destabilization of p27Kip1. Journal of Cell Biology, 2006, 172, i12-i12.	5.2	0
142	A Novel Function for Cyclin E in Cell Cycle Progression. , 2008, , 31-39.		0
143	Editorial: Editorâ€™s Pick 2021: Highlights in Cell Growth and Division. Frontiers in Cell and Developmental Biology, 2022, 10, 859568.	3.7	0