

Hongtao Yu

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95
papers

7,072
citations

47
h-index

84
g-index

112
ext. papers

8,574
ext. citations

14.2
avg, IF

6.34
L-index

#	Paper	IF	Citations
95	Noncoding RNA NORAD Regulates Genomic Stability by Sequestering PUMILIO Proteins. <i>Cell</i> , 2016 , 164, 69-80	56.2	496
94	Direct binding of CDC20 protein family members activates the anaphase-promoting complex in mitosis and G1. <i>Molecular Cell</i> , 1998 , 2, 163-71	17.6	430
93	Mad2-Independent inhibition of APCCdc20 by the mitotic checkpoint protein BubR1. <i>Developmental Cell</i> , 2001 , 1, 227-37	10.2	359
92	Regulation of APC-Cdc20 by the spindle checkpoint. <i>Current Opinion in Cell Biology</i> , 2002 , 14, 706-14	9	298
91	PP2A is required for centromeric localization of Sgo1 and proper chromosome segregation. <i>Developmental Cell</i> , 2006 , 10, 575-85	10.2	279
90	Human cohesin compacts DNA by loop extrusion. <i>Science</i> , 2019 , 366, 1345-1349	33.3	270
89	Cdc20: a WD40 activator for a cell cycle degradation machine. <i>Molecular Cell</i> , 2007 , 27, 3-16	17.6	264
88	The Mad2 spindle checkpoint protein undergoes similar major conformational changes upon binding to either Mad1 or Cdc20. <i>Molecular Cell</i> , 2002 , 9, 59-71	17.6	260
87	The Mad2 spindle checkpoint protein has two distinct natively folded states. <i>Nature Structural and Molecular Biology</i> , 2004 , 11, 338-45	17.6	234
86	Phosphorylation of Cdc20 by Bub1 provides a catalytic mechanism for APC/C inhibition by the spindle checkpoint. <i>Molecular Cell</i> , 2004 , 16, 387-97	17.6	213
85	Conformation-specific binding of p31(comet) antagonizes the function of Mad2 in the spindle checkpoint. <i>EMBO Journal</i> , 2004 , 23, 3133-43	13	167
84	Synergistic blockade of mitotic exit by two chemical inhibitors of the APC/C. <i>Nature</i> , 2014 , 514, 646-9	50.4	165
83	p31comet blocks Mad2 activation through structural mimicry. <i>Cell</i> , 2007 , 131, 744-55	56.2	157
82	Structure of the Mad2 spindle assembly checkpoint protein and its interaction with Cdc20. <i>Nature Structural Biology</i> , 2000 , 7, 224-9		151
81	CELL DIVISION CYCLE. Kinetochore attachment sensed by competitive Mps1 and microtubule binding to Ndc80C. <i>Science</i> , 2015 , 348, 1260-4	33.3	138
80	Phosphorylation-enabled binding of SGO1-PP2A to cohesin protects sororin and centromeric cohesion during mitosis. <i>Nature Cell Biology</i> , 2013 , 15, 40-9	23.4	137
79	Protein metamorphosis: the two-state behavior of Mad2. <i>Structure</i> , 2008 , 16, 1616-25	5.2	114

78	Mitotic transcription and waves of gene reactivation during mitotic exit. <i>Science</i> , 2017 , 358, 119-122	33.3	112
77	Mitotic Transcription Installs Sgo1 at Centromeres to Coordinate Chromosome Segregation. <i>Molecular Cell</i> , 2015 , 59, 426-36	17.6	108
76	Tracking spindle checkpoint signals from kinetochores to APC/C. <i>Trends in Biochemical Sciences</i> , 2013 , 38, 302-11	10.3	108
75	Structure of cohesin subcomplex pinpoints direct shugoshin-Wapl antagonism in centromeric cohesion. <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 864-70	17.6	104
74	Phospho-H2A and cohesin specify distinct tension-regulated Sgo1 pools at kinetochores and inner centromeres. <i>Current Biology</i> , 2013 , 23, 1927-33	6.3	98
73	Multiple assembly mechanisms anchor the KMN spindle checkpoint platform at human mitotic kinetochores. <i>Journal of Cell Biology</i> , 2015 , 208, 181-96	7.3	89
72	Structural activation of Mad2 in the mitotic spindle checkpoint: the two-state Mad2 model versus the Mad2 template model. <i>Journal of Cell Biology</i> , 2006 , 173, 153-7	7.3	86
71	A sequential multi-target Mps1 phosphorylation cascade promotes spindle checkpoint signaling. <i>ELife</i> , 2017 , 6,	8.9	84
70	The Smc complexes in DNA damage response. <i>Cell and Bioscience</i> , 2012 , 2, 5	9.8	82
69	Structural insights into the TRIM family of ubiquitin E3 ligases. <i>Cell Research</i> , 2014 , 24, 762-5	24.7	82
68	Structural Basis and IP6 Requirement for Pds5-Dependent Cohesin Dynamics. <i>Molecular Cell</i> , 2016 , 62, 248-259	17.6	78
67	Mutual regulation between the spindle checkpoint and APC/C. <i>Seminars in Cell and Developmental Biology</i> , 2011 , 22, 551-8	7.5	74
66	Structure of human Mad1 C-terminal domain reveals its involvement in kinetochore targeting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 6549-54	11.5	74
65	Structure and substrate recruitment of the human spindle checkpoint kinase Bub1. <i>Molecular Cell</i> , 2008 , 32, 394-405	17.6	72
64	Cryo-EM structure of the human cohesin-NIPBL-DNA complex. <i>Science</i> , 2020 , 368, 1454-1459	33.3	71
63	Insights into mad2 regulation in the spindle checkpoint revealed by the crystal structure of the symmetric mad2 dimer. <i>PLoS Biology</i> , 2008 , 6, e50	9.7	71
62	The Bub1-Plk1 kinase complex promotes spindle checkpoint signalling through Cdc20 phosphorylation. <i>Nature Communications</i> , 2016 , 7, 10818	17.4	71
61	Scc2 Is a Potent Activator of Cohesin's ATPase that Promotes Loading by Binding Scc1 without Pds5. <i>Molecular Cell</i> , 2018 , 70, 1134-1148.e7	17.6	71

60	Scc1 sumoylation by Mms21 promotes sister chromatid recombination through counteracting Wapl. <i>Genes and Development</i> , 2012 , 26, 1473-85	12.6	66
59	Activation mechanism of the insulin receptor revealed by cryo-EM structure of the fully liganded receptor-ligand complex. <i>ELife</i> , 2019 , 8,	8.9	65
58	Crystal structure of the cohesin loader Scc2 and insight into cohesinopathy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 12444-12449	11.5	61
57	Mitotic Checkpoint Regulators Control Insulin Signaling and Metabolic Homeostasis. <i>Cell</i> , 2016 , 166, 567-581	56.2	60
56	Structural basis of the activation of type 1 insulin-like growth factor receptor. <i>Nature Communications</i> , 2019 , 10, 4567	17.4	56
55	Structure of guanine-nucleotide-exchange factor human Mss4 and identification of its Rab-interacting surface. <i>Nature</i> , 1995 , 376, 788-91	50.4	54
54	The human SKA complex drives the metaphase-anaphase cell cycle transition by recruiting protein phosphatase 1 to kinetochores. <i>ELife</i> , 2016 , 5,	8.9	53
53	Ska3 Phosphorylated by Cdk1 Binds Ndc80 and Recruits Ska to Kinetochores to Promote Mitotic Progression. <i>Current Biology</i> , 2017 , 27, 1477-1484.e4	6.3	50
52	The kinase activity of the Ser/Thr kinase BUB1 promotes TGF- β signaling. <i>Science Signaling</i> , 2015 , 8, ra1	8.8	50
51	Prolonged activation of innate immune pathways by a polyvalent STING agonist. <i>Nature Biomedical Engineering</i> , 2021 , 5, 455-466	19	49
50	Structure of the human cohesin inhibitor Wapl. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 11355-60	11.5	48
49	Structural basis of cohesin cleavage by separase. <i>Nature</i> , 2016 , 532, 131-4	50.4	48
48	Defining pathways of spindle checkpoint silencing: functional redundancy between Cdc20 ubiquitination and p31(comet). <i>Molecular Biology of the Cell</i> , 2011 , 22, 4227-35	3.5	45
47	The Cdc20-binding Phe box of the spindle checkpoint protein BubR1 maintains the mitotic checkpoint complex during mitosis. <i>Journal of Biological Chemistry</i> , 2015 , 290, 2431-43	5.4	42
46	PUMILIO hyperactivity drives premature aging of -deficient mice. <i>ELife</i> , 2019 , 8,	8.9	40
45	Familial germline mutation defines a new human cohesinopathy. <i>Npj Genomic Medicine</i> , 2017 , 2, 7	6.2	37
44	Genome-wide siRNA screen reveals coupling between mitotic apoptosis and adaptation. <i>EMBO Journal</i> , 2014 , 33, 1960-76	13	36
43	Mitotic regulators and the SHP2-MAPK pathway promote IR endocytosis and feedback regulation of insulin signaling. <i>Nature Communications</i> , 2019 , 10, 1473	17.4	35

42	MCM2-7-dependent cohesin loading during S phase promotes sister-chromatid cohesion. <i>ELife</i> , 2018 , 7,	8.9	35
41	The BUB3-BUB1 Complex Promotes Telomere DNA Replication. <i>Molecular Cell</i> , 2018 , 70, 395-407.e4	17.6	34
40	Structure of human GABA receptor in an inactive state. <i>Nature</i> , 2020 , 584, 304-309	50.4	32
39	The transcription factor TFII-I promotes DNA translesion synthesis and genomic stability. <i>PLoS Genetics</i> , 2014 , 10, e1004419	6	32
38	Structural basis of tubulin detyrosination by vasohibins. <i>Nature Structural and Molecular Biology</i> , 2019 , 26, 583-591	17.6	31
37	Control of APC/C-dependent ubiquitin chain elongation by reversible phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 1540-5	11.5	31
36	Structural Insight into DNA-Dependent Activation of Human Metalloprotease Spartan. <i>Cell Reports</i> , 2019 , 26, 3336-3346.e4	10.6	27
35	Functional analysis of the spindle-checkpoint proteins using an in vitro ubiquitination assay. <i>Methods in Molecular Biology</i> , 2004 , 281, 227-42	1.4	26
34	Structure of an intermediate conformer of the spindle checkpoint protein Mad2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 11252-7	11.5	24
33	Interaction of the Warsaw breakage syndrome DNA helicase DDX11 with the replication fork-protection factor Timeless promotes sister chromatid cohesion. <i>PLoS Genetics</i> , 2018 , 14, e1007622 ⁶	6	24
32	Mechanistic insight into TRIP13-catalyzed Mad2 structural transition and spindle checkpoint silencing. <i>Nature Communications</i> , 2017 , 8, 1956	17.4	23
31	Substrate-specific activation of the mitotic kinase Bub1 through intramolecular autophosphorylation and kinetochore targeting. <i>Structure</i> , 2014 , 22, 1616-27	5.2	23
30	Releasing the cohesin ring: A rigid scaffold model for opening the DNA exit gate by Pds5 and Wapl. <i>BioEssays</i> , 2017 , 39, 1600207	4.1	21
29	Insulin receptor endocytosis in the pathophysiology of insulin resistance. <i>Experimental and Molecular Medicine</i> , 2020 , 52, 911-920	12.8	19
28	Sumoylation promotes optimal APC/C Activation and Timely Anaphase. <i>ELife</i> , 2018 , 7,	8.9	19
27	Regulation of sister chromatid cohesion during the mitotic cell cycle. <i>Science China Life Sciences</i> , 2015 , 58, 1089-98	8.5	17
26	Chk1: a double agent in cell cycle checkpoints. <i>Developmental Cell</i> , 2007 , 12, 167-8	10.2	12
25	Cryo-EM structure of VASH1-SVBP bound to microtubules. <i>ELife</i> , 2020 , 9,	8.9	12

24	The chromatin remodeler RSF1 controls centromeric histone modifications to coordinate chromosome segregation. <i>Nature Communications</i> , 2018 , 9, 3848	17.4	10
23	Shaping of the 3D genome by the ATPase machine cohesin. <i>Experimental and Molecular Medicine</i> , 2020 , 52, 1891-1897	12.8	7
22	Opposing Functions of the N-terminal Acetyltransferases Naa50 and NatA in Sister-chromatid Cohesion. <i>Journal of Biological Chemistry</i> , 2016 , 291, 19079-91	5.4	7
21	Magic Acts with the Cohesin Ring. <i>Molecular Cell</i> , 2016 , 61, 489-491	17.6	6
20	Partner switching for Ran during the mitosis dance. <i>Journal of Molecular Cell Biology</i> , 2018 , 10, 89-90	6.3	5
19	Mps1 regulates spindle morphology through MCRS1 to promote chromosome alignment. <i>Molecular Biology of the Cell</i> , 2019 , 30, 1060-1068	3.5	5
18	Spindle Checkpoint Regulators in Insulin Signaling. <i>Frontiers in Cell and Developmental Biology</i> , 2018 , 6, 161	5.7	5
17	A Method for SUMO Modification of Proteins. <i>Bio-protocol</i> , 2018 , 8,	0.9	4
16	A protective chaperone for the kinetochore adaptor Bub3. <i>Developmental Cell</i> , 2014 , 28, 223-4	10.2	3
15	Tango between ubiquitin ligase and deubiquitinase keeps cyclin A tag free. <i>Molecular Cell</i> , 2011 , 42, 409-416	17.6	3
14	Cyclin A Turns on Bora to Light the Path to Mitosis. <i>Developmental Cell</i> , 2018 , 45, 542-543	10.2	2
13	Chromosome biology: Wapl spreads its wings. <i>Current Biology</i> , 2013 , 23, R923-5	6.3	2
12	Biochemical and Functional Assays of Human Cohesin-Releasing Factor Wapl. <i>Methods in Molecular Biology</i> , 2017 , 1515, 37-53	1.4	2
11	PP2A as a mercenary for warring kinases in the egg. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 17245-6	11.5	2
10	The complexity of life and death decisions in mitosis. <i>Molecular and Cellular Oncology</i> , 2015 , 2, e969658	1.2	1
9	TP53 promotes lineage commitment of human embryonic stem cells through ciliogenesis and sonic hedgehog signaling.. <i>Cell Reports</i> , 2022 , 38, 110395	10.6	1
8	CENP-T bears the load in mitosis. <i>Nature Cell Biology</i> , 2018 , 20, 1335-1337	23.4	0
7	Cryo-EM structures of human p97 double hexamer capture potentiated ATPase-competent state.. <i>Cell Discovery</i> , 2022 , 8, 19	22.3	0

- 6 A mad partner for Shugoshin in meiosis. *EMBO Journal*, **2011**, 30, 2759-61 13
- 5 Molecular Mechanism of the Spindle Checkpoint. *FASEB Journal*, **2007**, 21, A209 0.9
- 4 The SMC5/6 Complex Maintains Telomere Length in ALT Cancer Cells through Sumoylation of Telomere-Binding Proteins. *FASEB Journal*, **2007**, 21, A655 0.9
- 3 Scc1 sumoylation by Mms21 promotes sister chromatid recombination through counteracting Wapl. *FASEB Journal*, **2012**, 26, 539.5 0.9
- 2 Structure of Human Mad1 C-terminal Domain Reveals Its Kinetochore-Targeting Function. *FASEB Journal*, **2012**, 26, 934.3 0.9
- 1 NIP45 Promotes Telomere Targeting to PML Bodies in ALT Cells. *FASEB Journal*, **2012**, 26, 933.6 0.9