

Tatsuo Fukagawa

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

8,473
citations

76326

40
h-index

62596

80
g-index

89
all docs

89
docs citations

89
times ranked

6384
citing authors

#	ARTICLE	IF	CITATIONS
1	A Simple Method that Combines CRISPR and AID to Quickly Generate Conditional Knockouts for Essential Genes in Various Vertebrate Cell Lines. <i>Methods in Molecular Biology</i> , 2022, 2377, 109-122.	0.9	0
2	Mobility of kinetochore proteins measured by FRAP analysis in living cells. <i>Chromosome Research</i> , 2022, 30, 43-57.	2.2	7
3	Transfected plasmid DNA is incorporated into the nucleus via nuclear envelope reformation at telophase. <i>Communications Biology</i> , 2022, 5, 78.	4.4	14
4	Recruitment of two Ndc80 complexes via the CENP-T pathway is sufficient for kinetochore functions. <i>Nature Communications</i> , 2022, 13, 851.	12.8	14
5	A Simple Method to Generate Super-sensitive AID (ssAID)-based Conditional Knockouts using CRISPR-based Gene Knockout in Various Vertebrate Cell Lines. <i>Bio-protocol</i> , 2021, 11, e4092.	0.4	1
6	CENP-C Phosphorylation by CDK1 in vitro. <i>Bio-protocol</i> , 2021, 11, e3879.	0.4	2
7	Bridgin connects the outer kinetochore to centromeric chromatin. <i>Nature Communications</i> , 2021, 12, 146.	12.8	17
8	Kinetochore stretching-mediated rapid silencing of the spindle-assembly checkpoint required for failsafe chromosome segregation. <i>Current Biology</i> , 2021, 31, 1581-1591.e3.	3.9	17
9	Bub1 and CENP-U redundantly recruit Plk1 to stabilize kinetochore-microtubule attachments and ensure accurate chromosome segregation. <i>Cell Reports</i> , 2021, 36, 109740.	6.4	20
10	Cryo-EM structure of the CENP-A nucleosome in complex with phosphorylated CENP-C. <i>EMBO Journal</i> , 2021, 40, e105671.	7.8	35
11	Cryo-EM Structures of Centromeric Tri-nucleosomes Containing a Central CENP-A Nucleosome. <i>Structure</i> , 2020, 28, 44-53.e4.	3.3	47
12	Essentiality of CENP-A Depends on Its Binding Mode to HJURP. <i>Cell Reports</i> , 2020, 33, 108388.	6.4	9
13	CENP-50 is required for papilloma development in the two-stage skin carcinogenesis model. <i>Cancer Science</i> , 2020, 111, 2850-2860.	3.9	3
14	A super-sensitive auxin-inducible degron system with an engineered auxin-TIR1 pair. <i>Nucleic Acids Research</i> , 2020, 48, e108-e108.	14.5	32
15	H3K9me3 maintenance on a Human Artificial Chromosome is required for segregation but not centromere epigenetic memory. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	15
16	Artificial generation of centromeres and kinetochores to understand their structure and function. <i>Experimental Cell Research</i> , 2020, 389, 111898.	2.6	8
17	Dynamics of kinetochore structure and its regulations during mitotic progression. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 2981-2995.	5.4	45
18	CDK1-mediated CENP-C phosphorylation modulates CENP-A binding and mitotic kinetochore localization. <i>Journal of Cell Biology</i> , 2019, 218, 4042-4062.	5.2	47

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19	Centromere maintenance during DNA replication. <i>Nature Cell Biology</i> , 2019, 21, 669-671.	10.3	0
20	Where is the right path heading from the centromere to spindle microtubules?. <i>Cell Cycle</i> , 2019, 18, 1199-1211.	2.6	8
21	Live imaging of marked chromosome regions reveals their dynamic resolution and compaction in mitosis. <i>Journal of Cell Biology</i> , 2019, 218, 1531-1552.	5.2	16
22	The CENP-A centromere targeting domain facilitates H4K20 monomethylation in the nucleosome by structural polymorphism. <i>Nature Communications</i> , 2019, 10, 576.	12.8	28
23	3D genomic architecture reveals that neocentromeres associate with heterochromatin regions. <i>Journal of Cell Biology</i> , 2019, 218, 134-149.	5.2	31
24	Kinetochore assembly and disassembly during mitotic entry and exit. <i>Current Opinion in Cell Biology</i> , 2018, 52, 73-81.	5.4	54
25	Multiple phosphorylations control recruitment of the KMN network onto kinetochores. <i>Nature Cell Biology</i> , 2018, 20, 1378-1388.	10.3	70
26	Site-Specific Cleavage by Topoisomerase 2: A Mark of the Core Centromere. <i>International Journal of Molecular Sciences</i> , 2018, 19, 534.	4.1	7
27	Stepwise unfolding supports a subunit model for vertebrate kinetochores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3133-3138.	7.1	14
28	An efficient method to generate conditional knockout cell lines for essential genes by combination of auxin-inducible degron tag and CRISPR/Cas9. <i>Chromosome Research</i> , 2017, 25, 253-260.	2.2	26
29	Critical histone post-translational modifications for centromere function and propagation. <i>Cell Cycle</i> , 2017, 16, 1259-1265.	2.6	18
30	Constitutive centromere-associated network controls centromere drift in vertebrate cells. <i>Journal of Cell Biology</i> , 2017, 216, 101-113.	5.2	29
31	Critical Foundation of the Kinetochore: The Constitutive Centromere-Associated Network (CCAN). <i>Progress in Molecular and Subcellular Biology</i> , 2017, 56, 29-57.	1.6	52
32	Association of M18BP1/KNL2 with CENP-A Nucleosome Is Essential for Centromere Formation in Non-mammalian Vertebrates. <i>Developmental Cell</i> , 2017, 42, 181-189.e3.	7.0	56
33	CENP α acts bilaterally as a tumor suppressor and as an oncogene in the two-stage skin carcinogenesis model. <i>Cancer Science</i> , 2017, 108, 2142-2148.	3.9	9
34	Genetic complementation analysis showed distinct contributions of the N-terminal tail of H2A.Z to epigenetic regulations. <i>Genes To Cells</i> , 2016, 21, 122-135.	1.2	15
35	Kinetochore assembly and function through the cell cycle. <i>Chromosoma</i> , 2016, 125, 645-659.	2.2	58
36	Acetylation of histone H4 lysine 5 and 12 is required for CENP-A deposition into centromeres. <i>Nature Communications</i> , 2016, 7, 13465.	12.8	66

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37	Chromatin binding of RCC1 during mitosis is important for its nuclear localization in interphase. <i>Molecular Biology of the Cell</i> , 2016, 27, 371-381.	2.1	14
38	RbAp48 is essential for viability of vertebrate cells and plays a role in chromosome stability. <i>Chromosome Research</i> , 2016, 24, 161-173.	2.2	12
39	Whole-proteome genetic analysis of dependencies in assembly of a vertebrate kinetochore. <i>Journal of Cell Biology</i> , 2015, 211, 1141-1156.	5.2	42
40	HJURP is involved in the expansion of centromeric chromatin. <i>Molecular Biology of the Cell</i> , 2015, 26, 2742-2754.	2.1	38
41	Cell Division: A New Role for the Kinetochore in Central Spindle Assembly. <i>Current Biology</i> , 2015, 25, R554-R557.	3.9	2
42	Dynamic changes in CCAN organization through CENP-C during cell-cycle progression. <i>Molecular Biology of the Cell</i> , 2015, 26, 3768-3776.	2.1	62
43	A new Xist allele driven by a constitutively active promoter is dominated by Xist locus environment and exhibits the parent-of-origin effects. <i>Development (Cambridge)</i> , 2015, 142, 4299-308.	2.5	5
44	The centromeric nucleosome-like CENP-A-Wâ€“X complex induces positive supercoils into DNA. <i>Nucleic Acids Research</i> , 2014, 42, 1644-1655.	14.5	72
45	The CENP-O complex requirement varies among different cell types. <i>Chromosome Research</i> , 2014, 22, 293-303.	2.2	34
46	The Centromere: Chromatin Foundation for the Kinetochore Machinery. <i>Developmental Cell</i> , 2014, 30, 496-508.	7.0	355
47	Neocentromeres. <i>Current Biology</i> , 2014, 24, R946-R947.	3.9	16
48	Histone H4 Lys 20 Monomethylation of the CENP-A Nucleosome Is Essential for Kinetochore Assembly. <i>Developmental Cell</i> , 2014, 29, 740-749.	7.0	101
49	Crystal structure and stable property of the cancer-associated heterotypic nucleosome containing CENP-A and H3.3. <i>Scientific Reports</i> , 2014, 4, 7115.	3.3	64
50	Chromosome Engineering Allows the Efficient Isolation of Vertebrate Neocentromeres. <i>Developmental Cell</i> , 2013, 24, 635-648.	7.0	155
51	CENP-T provides a structural platform for outer kinetochore assembly. <i>EMBO Journal</i> , 2013, 32, 424-436.	7.8	181
52	The CCAN recruits CENP-A to the centromere and forms the structural core for kinetochore assembly. <i>Journal of Cell Biology</i> , 2013, 200, 45-60.	5.2	182
53	Formation of a centromere-specific chromatin structure. <i>Epigenetics</i> , 2012, 7, 672-675.	2.7	3
54	Establishment of the vertebrate kinetochores. <i>Chromosome Research</i> , 2012, 20, 547-561.	2.2	36

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55	CENP-T-W-S-X Forms a Unique Centromeric Chromatin Structure with a Histone-like Fold. <i>Cell</i> , 2012, 148, 487-501.	28.9	229
56	Molecular architecture of vertebrate kinetochores. <i>Experimental Cell Research</i> , 2012, 318, 1367-1374.	2.6	55
57	Induced Ectopic Kinetochores Bypasses the Requirement for CENP-A Nucleosomes. <i>Cell</i> , 2011, 145, 410-422.	28.9	307
58	The ABCs of CENPs. <i>Chromosoma</i> , 2011, 120, 425-446.	2.2	173
59	Spindle microtubules generate tension-dependent changes in the distribution of inner kinetochore proteins. <i>Journal of Cell Biology</i> , 2011, 193, 125-140.	5.2	82
60	Chickens possess centromeres with both extended tandem repeats and short non-tandem-repetitive sequences. <i>Genome Research</i> , 2010, 20, 1219-1228.	5.5	158
61	Regulated targeting of protein phosphatase 1 to the outer kinetochore by KNL1 opposes Aurora B kinase. <i>Journal of Cell Biology</i> , 2010, 188, 809-820.	5.2	332
62	A super-resolution map of the vertebrate kinetochore. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10484-10489.	7.1	186
63	Aurora B Phosphorylates Spatially Distinct Targets to Differentially Regulate the Kinetochore-Microtubule Interface. <i>Molecular Cell</i> , 2010, 38, 383-392.	9.7	430
64	Vertebrate kinetochore protein architecture: protein copy number. <i>Journal of Cell Biology</i> , 2010, 189, 937-943.	5.2	80
65	The CENP-S complex is essential for the stable assembly of outer kinetochore structure. <i>Journal of Cell Biology</i> , 2009, 186, 173-182.	5.2	132
66	CENP-H-containing Complex Facilitates Centromere Deposition of CENP-A in Cooperation with FACT and CHD1. <i>Molecular Biology of the Cell</i> , 2009, 20, 3986-3995.	2.1	123
67	An auxin-based degron system for the rapid depletion of proteins in nonplant cells. <i>Nature Methods</i> , 2009, 6, 917-922.	19.0	1,364
68	CCAN Makes Multiple Contacts with Centromeric DNA to Provide Distinct Pathways to the Outer Kinetochore. <i>Cell</i> , 2008, 135, 1039-1052.	28.9	352
69	KNL1 and the CENP-H/I/K Complex Coordinately Direct Kinetochore Assembly in Vertebrates. <i>Molecular Biology of the Cell</i> , 2008, 19, 587-594.	2.1	176
70	CENP-O Class Proteins Form a Stable Complex and Are Required for Proper Kinetochore Function. <i>Molecular Biology of the Cell</i> , 2008, 19, 843-854.	2.1	123
71	CENP-C Is Involved in Chromosome Segregation, Mitotic Checkpoint Function, and Kinetochore Assembly. <i>Molecular Biology of the Cell</i> , 2007, 18, 2155-2168.	2.1	107
72	The CENP-H complex is required for the efficient incorporation of newly synthesized CENP-A into centromeres. <i>Nature Cell Biology</i> , 2006, 8, 446-457.	10.3	437

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73	Asf1 Is Required for Viability and Chromatin Assembly during DNA Replication in Vertebrate Cells. <i>Journal of Biological Chemistry</i> , 2006, 281, 13817-13827.	3.4	85
74	The human Mis12 complex is required for kinetochore assembly and proper chromosome segregation. <i>Journal of Cell Biology</i> , 2006, 173, 9-17.	5.2	173
75	The DT40 system as a tool for analyzing kinetochore assembly. <i>Sub-Cellular Biochemistry</i> , 2006, 40, 91-106.	2.4	9
76	The Constitutive Centromere Component CENP-50 Is Required for Recovery from Spindle Damage. <i>Molecular and Cellular Biology</i> , 2005, 25, 10315-10328.	2.3	69
77	CENP-A Is Required for Accurate Chromosome Segregation and Sustained Kinetochore Association of BubR1. <i>Molecular and Cellular Biology</i> , 2005, 25, 3967-3981.	2.3	168
78	Dicer is essential for formation of the heterochromatin structure in vertebrate cells. <i>Nature Cell Biology</i> , 2004, 6, 784-791.	10.3	451
79	Characterization of chicken CENP-A and comparative sequence analysis of vertebrate centromere-specific histone H3-like proteins. <i>Gene</i> , 2003, 316, 39-46.	2.2	23
80	Dynamic behavior of Nuf2-Hec1 complex that localizes to the centrosome and centromere and is essential for mitotic progression in vertebrate cells. <i>Journal of Cell Science</i> , 2003, 116, 3347-3362.	2.0	139
81	CENP-I Is Essential for Centromere Function in Vertebrate Cells. <i>Developmental Cell</i> , 2002, 2, 463-476.	7.0	131
82	Co-localization of centromere activity, proteins and topoisomerase II within a subdomain of the major human X ₁ -satellite array. <i>EMBO Journal</i> , 2002, 21, 5269-5280.	7.8	94
83	Kinetochore Architecture Employs Diverse Linker Strategies Across Evolution. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	3.7	15