Hitoshi Kurumizaka

List of Publications by Year in descending order

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262 papers 11,769 citations

25034 57 h-index 46799 89 g-index

277 all docs

277 docs citations

times ranked

277

11383 citing authors

#	Article	IF	CITATIONS
1	Crystal structure of the human centromeric nucleosome containing CENP-A. Nature, 2011, 476, 232-235.	27.8	336
2	Independent and sequential recruitment of NHEJ and HR factors to DNA damage sites in mammalian cells. Journal of Cell Biology, 2005, 170, 341-347.	5.2	230
3	Structure and Dynamics of a 197Âbp Nucleosome in Complex with Linker Histone H1. Molecular Cell, 2017, 66, 384-397.e8.	9.7	225
4	Tracking epigenetic histone modifications in single cells using Fab-based live endogenous modification labeling. Nucleic Acids Research, 2011, 39, 6475-6488.	14.5	219
5	Mislocalization of the Centromeric Histone Variant CenH3/CENP-A in Human Cells Depends on the Chaperone DAXX. Molecular Cell, 2014, 53, 631-644.	9.7	214
6	Crystal Structure of the Homologous-Pairing Domain from the Human Rad52 Recombinase in the Undecameric Form. Molecular Cell, 2002, 10, 359-371.	9.7	210
7	Histone acetylation: influence on transcription, nucleosome mobility and positioning, and linker histone-dependent transcriptional repression. EMBO Journal, 1997, 16, 2096-2107.	7.8	207
8	Structural Basis of Heterochromatin Formation by Human HP1. Molecular Cell, 2018, 69, 385-397.e8.	9.7	196
9	Structural basis of instability of the nucleosome containing a testis-specific histone variant, human H3T. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10454-10459.	7.1	195
10	Structural basis of replication origin recognition by the DnaA protein. Nucleic Acids Research, 2003, 31, 2077-2086.	14.5	183
11	Involvement of SLX4 in interstrand cross-link repair is regulated by the Fanconi anemia pathway. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6492-6496.	7.1	169
12	Structural basis of the nucleosome transition during RNA polymerase II passage. Science, 2018, 362, 595-598.	12.6	157
13	Expression and purification of recombinant human histones. Methods, 2004, 33, 3-11.	3.8	153
14	Structural basis for the inhibition of cGAS by nucleosomes. Science, 2020, 370, 455-458.	12.6	149
15	Homologous Pairing Promoted by the Human Rad52 Protein. Journal of Biological Chemistry, 2001, 276, 35201-35208.	3.4	142
16	The N-terminal domain of the human Rad51 protein binds DNA: structure and a DNA binding surface as revealed by NMR. Journal of Molecular Biology, 1999, 290, 495-504.	4.2	134
17	A FancD2-Monoubiquitin Fusion Reveals Hidden Functions of Fanconi Anemia Core Complex in DNA Repair. Molecular Cell, 2005, 19, 841-847.	9.7	134
18	The interaction of DiaA and DnaA regulates the replication cycle in <i>E. coli</i> by directly promoting ATP–DnaA-specific initiation complexes. Genes and Development, 2007, 21, 2083-2099.	5.9	127

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19	Structural insight into nucleosome transcription by RNA polymerase II with elongation factors. Science, 2019, 363, 744-747.	12.6	126
20	Homologous-pairing activity of the human DNA-repair proteins Xrcc3*Rad51C. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 5538-5543.	7.1	123
21	A Common Mechanism for the ATP-DnaA-dependent Formation of Open Complexes at the Replication Origin. Journal of Biological Chemistry, 2008, 283, 8351-8362.	3.4	123
22	RFWD3-Mediated Ubiquitination Promotes Timely Removal of Both RPA and RAD51 from DNA Damage Sites to Facilitate Homologous Recombination. Molecular Cell, 2017, 66, 622-634.e8.	9.7	123
23	Solution structure of the DNA binding domain of a nucleoid-associated protein, H-NS, fromEscherichia coli. FEBS Letters, 1995, 360, 125-131.	2.8	121
24	GATA3-dependent cellular reprogramming requires activation-domain dependent recruitment of a chromatin remodeler. Genome Biology, 2016, 17, 36.	8.8	121
25	A chromatin integration labelling method enables epigenomic profiling with lower input. Nature Cell Biology, 2019, 21, 287-296.	10.3	121
26	Chd2 interacts with H3.3 to determine myogenic cell fate. EMBO Journal, 2012, 31, 2994-3007.	7.8	117
27	Histone Variant H2A.L.2 Guides Transition Protein-Dependent Protamine Assembly in Male Germ Cells. Molecular Cell, 2017, 66, 89-101.e8.	9.7	116
28	Contribution of histone Nâ€ŧerminal tails to the structure and stability of nucleosomes. FEBS Open Bio, 2013, 3, 363-369.	2.3	105
29	Structural Analysis of the Hexasome, Lacking One Histone H2A/H2B Dimer from the Conventional Nucleosome. Biochemistry, 2012, 51, 3302-3309.	2.5	101
30	Mutations in the Gene Encoding the E2 Conjugating Enzyme UBE2T Cause Fanconi Anemia. American Journal of Human Genetics, 2015, 96, 1001-1007.	6.2	100
31	Structural Basis for Octameric Ring Formation and DNA Interaction of the Human Homologous-Pairing Protein Dmc1. Molecular Cell, 2004, 14, 363-374.	9.7	99
32	Crystal structure of the CENP-B protein-DNA complex: the DNA-binding domains of CENP-B induce kinks in the CENP-B box DNA. EMBO Journal, 2001, 20, 6612-6618.	7.8	97
33	Structures of human nucleosomes containing major histone H3 variants. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 578-583.	2.5	96
34	Genetically encoded system to track histone modification in vivo. Scientific Reports, 2013, 3, 2436.	3.3	96
35	The Nucleosome: A Powerful Regulator of Transcription. Progress in Molecular Biology and Translational Science, 1998, 61, 379-422.	1.9	92
36	Histone Methylation by SETD1A Protects Nascent DNA through the Nucleosome Chaperone Activity of FANCD2. Molecular Cell, 2018, 71, 25-41.e6.	9.7	87

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37	Preferential binding to branched DNA strands and strand-annealing activity of the human Rad51B, Rad51C, Rad51D and Xrcc2 protein complex. Nucleic Acids Research, 2004, 32, 2556-2565.	14.5	84
38	Testis-Specific Histone Variant H3t Gene Is Essential for Entry into Spermatogenesis. Cell Reports, 2017, 18, 593-600.	6.4	82
39	An interaction between a specified surface of the C-terminal domain of RecA protein and double-stranded DNA for homologous pairing. Journal of Molecular Biology, 1997, 274, 213-221.	4.2	80
40	DNA robustly stimulates FANCD2 monoubiquitylation in the complex with FANCI. Nucleic Acids Research, 2012, 40, 4553-4561.	14.5	79
41	Nucleosome formation with the testis-specific histone H3 variant, H3t, by human nucleosome assembly proteins in vitro. Nucleic Acids Research, 2008, 36, 2208-2218.	14.5	78
42	Crystal structure of the overlapping dinucleosome composed of hexasome and octasome. Science, 2017, 356, 205-208.	12.6	77
43	FANCD2 Binds CtIP and Regulates DNA-End Resection during DNA Interstrand Crosslink Repair. Cell Reports, 2014, 7, 1039-1047.	6.4	73
44	Structural diversity of the nucleosome. Journal of Biochemistry, 2018, 163, 85-95.	1.7	73
45	A Possible Role of the C-terminal Domain of the RecA Protein. Journal of Biological Chemistry, 1996, 271, 33515-33524.	3.4	72
46	Homologous Pairing and Ring and Filament Structure Formation Activities of the Human Xrcc2·Rad51D Complex. Journal of Biological Chemistry, 2002, 277, 14315-14320.	3.4	72
47	KIAA1018/FAN1 nuclease protects cells against genomic instability induced by interstrand cross-linking agents. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21553-21557.	7.1	72
48	The centromeric nucleosome-like CENP–T–W–S–X complex induces positive supercoils into DNA. Nucleic Acids Research, 2014, 42, 1644-1655.	14.5	72
49	The Flexible Ends of CENP-A Nucleosome Are Required for Mitotic Fidelity. Molecular Cell, 2016, 63, 674-685.	9.7	72
50	DNA damage detection in nucleosomes involves DNA register shifting. Nature, 2019, 571, 79-84.	27.8	72
51	Human rad51 amino acid residues required for rad52 binding 1 1Edited by P. E. Wright. Journal of Molecular Biology, 1999, 291, 537-548.	4.2	71
52	Replication stress induces accumulation of FANCD2 at central region of large fragile genes. Nucleic Acids Research, 2018, 46, 2932-2944.	14.5	70
53	CHD3 helicase domain mutations cause a neurodevelopmental syndrome with macrocephaly and impaired speech and language. Nature Communications, 2018, 9, 4619.	12.8	70
54	HIV-1 Vpr Induces DNA Double-Strand Breaks. Cancer Research, 2006, 66, 627-631.	0.9	69

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55	Identification of a Second DNA Binding Site in the Human Rad52 Protein. Journal of Biological Chemistry, 2008, 283, 24264-24273.	3.4	69
56	Transcription through the nucleosome. Current Opinion in Structural Biology, 2020, 61, 42-49.	5.7	68
57	Histone H2A variants confer specific properties to nucleosomes and impact on chromatin accessibility. Nucleic Acids Research, 2018, 46, 7675-7685.	14.5	65
58	Homologous genetic recombination as an intrinsic dynamic property of a DNA structure induced by RecA/Rad51-family proteins: A possible advantage of DNA over RNA as genomic material. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 8425-8432.	7.1	64
59	Crystal structure and stable property of the cancer-associated heterotypic nucleosome containing CENP-A and H3.3. Scientific Reports, 2014, 4, 7115.	3.3	64
60	N-terminal phosphorylation of HP1 \hat{l}_{\pm} increases its nucleosome-binding specificity. Nucleic Acids Research, 2014, 42, 12498-12511.	14.5	63
61	ATR–ATRIP Kinase Complex Triggers Activation of the Fanconi Anemia DNA Repair Pathway. Cancer Research, 2012, 72, 1149-1156.	0.9	62
62	Dynamic changes in CCAN organization through CENP-C during cell-cycle progression. Molecular Biology of the Cell, 2015, 26, 3768-3776.	2.1	62
63	Histone chaperone activity of Fanconi anemia proteins, FANCD2 and FANCI, is required for DNA crosslink repair. EMBO Journal, 2012, 31, 3524-3536.	7.8	61
64	Structural basis of a nucleosome containing histone H2A.B/H2A.Bbd that transiently associates with reorganized chromatin. Scientific Reports, 2013, 3, 3510.	3.3	61
65	A method for evaluating nucleosome stability with a protein-binding fluorescent dye. Methods, 2014, 70, 119-126.	3.8	60
66	Synthetic Posttranslational Modifications: Chemical Catalyst-Driven Regioselective Histone Acylation of Native Chromatin. Journal of the American Chemical Society, 2017, 139, 7568-7576.	13.7	60
67	Interaction of the pioneer transcription factor GATA3 with nucleosomes. Nature Communications, 2020, 11, 4136.	12.8	60
68	DIDS, a chemical compound that inhibits RAD51-mediated homologous pairing and strand exchange. Nucleic Acids Research, 2009, 37, 3367-3376.	14.5	59
69	Cdt1-binding protein GRWD1 is a novel histone-binding protein that facilitates MCM loading through its influence on chromatin architecture. Nucleic Acids Research, 2015, 43, 5898-5911.	14.5	59
70	Stable complex formation of CENP-B with the CENP-A nucleosome. Nucleic Acids Research, 2015, 43, 4909-4922.	14.5	59
71	Cancer-associated mutations of histones H2B, H3.1 and H2A.Z.1 affect the structure and stability of the nucleosome. Nucleic Acids Research, 2018, 46, 10007-10018.	14.5	58
72	Activation of the SUMO modification system is required for the accumulation of RAD51 at sites containing DNA damage. Journal of Cell Science, 2013, 126, 5284-92.	2.0	56

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73	Association of M18BP1/KNL2 with CENP-A Nucleosome Is Essential for Centromere Formation in Non-mammalian Vertebrates. Developmental Cell, 2017, 42, 181-189.e3.	7.0	56
74	Genetic variance modifies apoptosis susceptibility in mature oocytes via alterations in DNA repair capacity and mitochondrial ultrastructure. Cell Death and Differentiation, 2007, 14, 524-533.	11.2	55
75	Structural polymorphism in the L1 loop regions of human H2A.Z.1 and H2A.Z.2. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 2431-2439.	2.5	55
76	Holliday Junction Binding Activity of the Human Rad51B Protein. Journal of Biological Chemistry, 2003, 278, 2767-2772.	3.4	54
77	Nucleosome Formation Activity of Human Somatic Nuclear Autoantigenic Sperm Protein (sNASP). Journal of Biological Chemistry, 2010, 285, 11913-11921.	3.4	54
78	Sufficient Amounts of Functional HOP2/MND1 Complex Promote Interhomolog DNA Repair but Are Dispensable for Intersister DNA Repair during Meiosis in <i>Arabidopsis</i> Â. Plant Cell, 2014, 25, 4924-4940.	6.6	54
79	Human Centromere Protein B Induces Translational Positioning of Nucleosomes on α-Satellite Sequences. Journal of Biological Chemistry, 2005, 280, 41609-41618.	3.4	53
80	Histone H3.5 forms an unstable nucleosome and accumulates around transcription start sites in human testis. Epigenetics and Chromatin, 2016, 9, 2.	3.9	53
81	The CHD4-related syndrome: a comprehensive investigation of the clinical spectrum, genotype–phenotype correlations, and molecular basis. Genetics in Medicine, 2020, 22, 389-397.	2.4	53
82	Roles of the human Rad51 L1 and L2 loops in DNA binding. FEBS Journal, 2006, 273, 3148-3159.	4.7	52
83	A Genetically Encoded Probe for Live-Cell Imaging of H4K20 Monomethylation. Journal of Molecular Biology, 2016, 428, 3885-3902.	4.2	52
84	Human PSF binds to RAD51 and modulates its homologous-pairing and strand-exchange activities. Nucleic Acids Research, 2009, 37, 4296-4307.	14.5	51
85	Enhancing Survival of Mouse Oocytes Following Chemotherapy or Aging by Targeting Bax and Rad51. PLoS ONE, 2010, 5, e9204.	2.5	51
86	Evaluation of Chemical Fluorescent Dyes as a Protein Conjugation Partner for Live Cell Imaging. PLoS ONE, 2014, 9, e106271.	2.5	51
87	HIV-1 Vpr induces ATM-dependent cellular signal with enhanced homologous recombination. Oncogene, 2007, 26, 477-486.	5.9	50
88	Structural genomics projects in Japan. Progress in Biophysics and Molecular Biology, 2000, 73, 363-376.	2.9	49
89	Stimulation of DNA Strand Exchange by the Human TBPIP/Hop2-Mnd1 Complex. Journal of Biological Chemistry, 2006, 281, 5575-5581.	3.4	49
90	Bivalent interaction of the PZP domain of BRPF1 with the nucleosome impacts chromatin dynamics and acetylation. Nucleic Acids Research, 2016, 44, 472-484.	14.5	49

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91	Structural Basis of Homology-Directed DNA Repair Mediated by RAD52. IScience, 2018, 3, 50-62.	4.1	49
92	Contributions of Histone Variants in Nucleosome Structure and Function. Journal of Molecular Biology, 2021, 433, 166678.	4.2	49
93	Human Rad54B is a double-stranded DNA-dependent ATPase and has biochemical properties different from its structural homolog in yeast, Tid1/Rdh54. Nucleic Acids Research, 2002, 30, 1346-1353.	14.5	48
94	Methods for Preparing Nucleosomes Containing Histone Variants. Methods in Molecular Biology, 2018, 1832, 3-20.	0.9	47
95	Cryo-EM Structures of Centromeric Tri-nucleosomes Containing a Central CENP-A Nucleosome. Structure, 2020, 28, 44-53.e4.	3.3	47
96	Structure and function of human histone H3.Y nucleosome. Nucleic Acids Research, 2016, 44, 6127-6141.	14.5	44
97	FANCI-FANCD2 stabilizes the RAD51-DNA complex by binding RAD51 and protects the 5′-DNA end. Nucleic Acids Research, 2016, 44, 10758-10771.	14.5	44
98	Positive Role of the Mammalian TBPIP/HOP2 Protein in DMC1-mediated Homologous Pairing. Journal of Biological Chemistry, 2004, 279, 35263-35272.	3.4	43
99	Functional domains for assembly of histones H3 and H4 into the chromatin of Xenopus embryos. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 12780-12785.	7.1	42
100	Structural transition of the nucleosome during chromatin remodeling and transcription. Current Opinion in Structural Biology, 2019, 59, 107-114.	5.7	42
101	Inhibition of filament formation of human Rad51 protein by a small peptide derived from the BRCâ€motif of the BRCA2 protein. Genes To Cells, 2008, 13, 471-481.	1.2	41
102	From meiosis to postmeiotic events: Uncovering the molecular roles of the meiosisâ€specific recombinase Dmc1. FEBS Journal, 2010, 277, 590-598.	4.7	40
103	H4K20me1 and H3K27me3 are concurrently loaded onto the inactive X chromosome but dispensable for inducing gene silencing. EMBO Reports, 2021, 22, e51989.	4.5	40
104	Halenaquinone, a chemical compound that specifically inhibits the secondary DNA binding of RAD51. Genes To Cells, 2011, 16, 427-436.	1.2	39
105	Structural basis of pyrimidine-pyrimidone (6–4) photoproduct recognition by UV-DDB in the nucleosome. Scientific Reports, 2015, 5, 16330.	3.3	39
106	Comprehensive Structural Analysis of Mutant Nucleosomes Containing Lysine to Glutamine (KQ) Substitutions in the H3 and H4 Histone-Fold Domains. Biochemistry, 2011, 50, 7822-7832.	2.5	37
107	LC–MS/MS-based quantitative study of the acyl group- and site-selectivity of human sirtuins to acylated nucleosomes. Scientific Reports, 2018, 8, 2656.	3.3	36
108	CpG methylation of the CENP-B box reduces human CENP-B binding. FEBS Journal, 2004, 272, 282-289.	4.7	35

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109	Structural and biochemical analyses of monoubiquitinated human histones H2B and H4. Open Biology, 2016, 6, 160090.	3.6	35
110	Histone H3 Methylated at Arginine 17 Is Essential for Reprogramming the Paternal Genome in Zygotes. Cell Reports, 2017, 20, 2756-2765.	6.4	35
111	H3K14 ubiquitylation promotes H3K9 methylation for heterochromatin assembly. EMBO Reports, 2019, 20, e48111.	4.5	35
112	Cryoâ€EM structure of the CENPâ€A nucleosome in complex with phosphorylated CENP . EMBO Journal, 2021, 40, e105671.	7.8	35
113	The DnaA homolog of the hyperthermophilic eubacterium Thermotoga maritima forms an open complex with a minimal 149-bp origin region in an ATP-dependent manner. Genes To Cells, 2006, 11, 425-438.	1.2	33
114	Structural and functional analyses of the DMC1-M200V polymorphism found in the human population. Nucleic Acids Research, 2008, 36, 4181-4190.	14.5	33
115	Current progress on structural studies of nucleosomes containing histone H3 variants. Current Opinion in Structural Biology, 2013, 23, 109-115.	5.7	32
116	Cryogenic coherent x-ray diffraction imaging for biological non-crystalline particles using the KOTOBUKI-1 diffraction apparatus at SACLA. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 184003.	1.5	32
117	Phosphorylation of CBX2 controls its nucleosome-binding specificity. Journal of Biochemistry, 2017, 162, 343-355.	1.7	31
118	Cryo-EM structure of the nucleosome containing the <i>ALB1</i> enhancer DNA sequence. Open Biology, 2018, 8, .	3.6	31
119	Acetylated histone H4 tail enhances histone H3 tail acetylation by altering their mutual dynamics in the nucleosome. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19661-19663.	7.1	31
120	Nucleosome binding by the pioneer transcription factor OCT4. Scientific Reports, 2020, 10, 11832.	3.3	30
121	Two Arginine Residues Suppress the Flexibility of Nucleosomal DNA in the Canonical Nucleosome Core. PLoS ONE, 2015, 10, e0120635.	2.5	30
122	The Mutant RecA Proteins, RecAR243Q and RecAK245N, Exhibit Defective DNA Binding in Homologous Pairing. Archives of Biochemistry and Biophysics, 1999, 365, 83-91.	3.0	29
123	Synthetic Chromatin Acylation by an Artificial Catalyst System. CheM, 2017, 2, 840-859.	11.7	29
124	Direct Inhibition of TNF-α Promoter Activity by Fanconi Anemia Protein FANCD2. PLoS ONE, 2011, 6, e23324.	2.5	29
125	Structural and biochemical analyses of hemimethylated DNA binding by the SeqA protein. Nucleic Acids Research, 2004, 32, 82-92.	14.5	28
126	The actin-related protein hArp8 accumulates on the mitotic chromosomes and functions in chromosome alignment. Experimental Cell Research, 2008, 314, 859-868.	2.6	28

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127	The CENP-A centromere targeting domain facilitates H4K20 monomethylation in the nucleosome by structural polymorphism. Nature Communications, 2019, 10, 576.	12.8	28
128	Location of Tyrosine 315, a Target for Phosphorylation by cAbl Tyrosine Kinase, at the Edge of the Subunit–Subunit Interface of the Human Rad51 Filament. Journal of Molecular Biology, 2004, 339, 797-804.	4.2	27
129	c-ABL tyrosine kinase stabilizes RAD51 chromatin association. Biochemical and Biophysical Research Communications, 2009, 382, 286-291.	2.1	27
130	GEMIN2 promotes accumulation of RAD51 at double-strand breaks in homologous recombination. Nucleic Acids Research, 2010, 38, 5059-5074.	14.5	27
131	Comparison between the CENP-A and histone H3 structures in nucleosomes. Nucleus, 2012, 3, 6-11.	2.2	27
132	Nap1 stimulates homologous recombination by RAD51 and RAD54 in higher-ordered chromatin containing histone H1. Scientific Reports, 2014, 4, 4863.	3.3	27
133	Crystal structures of heterotypic nucleosomes containing histones H2A.Z and H2A. Open Biology, 2016, 6, 160127.	3.6	27
134	Crystal Structure of the Human Centromere Protein B (CENP-B) Dimerization Domain at 1.65-Ã Resolution. Journal of Biological Chemistry, 2003, 278, 51454-51461.	3.4	26
135	Conclusive Evidence of the Reconstituted Hexasome Proven by Native Mass Spectrometry. Biochemistry, 2013, 52, 5155-5157.	2.5	26
136	Distinct Features of the Histone Core Structure in Nucleosomes Containing the Histone H2A.B Variant. Biophysical Journal, 2014, 106, 2206-2213.	0.5	26
137	Mutational analyses of the human Rad51-Tyr315 residue, a site for phosphorylation in leukaemia cells. Genes To Cells, 2004, 9, 781-790.	1.2	24
138	Vertebrate Spt2 is a novel nucleolar histone chaperone that assists in ribosomal DNA transcription. Journal of Cell Science, 2013, 126, 1323-32.	2.0	24
139	Live-cell epigenome manipulation by synthetic histone acetylation catalyst system. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118 , .	7.1	24
140	The Lys313 residue of the human Rad51 protein negatively regulates the strandâ€exchange activity. Genes To Cells, 2008, 13, 91-103.	1.2	23
141	Filament formation and robust strand exchange activities of the rice DMC1A and DMC1B proteins. Nucleic Acids Research, 2008, 36, 4266-4276.	14.5	23
142	Histone H3.3 sub-variant H3mm7 is required for normal skeletal muscle regeneration. Nature Communications, 2018, 9, 1400.	12.8	23
143	Role of the N-terminal Domain of the Human DMC1 Protein in Octamer Formation and DNA Binding. Journal of Biological Chemistry, 2005, 280, 28382-28387.	3.4	22
144	The ATR-Chk1 pathway plays a role in the generation of centrosome aberrations induced by Rad51C dysfunction. Nucleic Acids Research, 2009, 37, 3959-3968.	14.5	22

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145	Gas-Phase Structure of the Histone Multimers Characterized by Ion Mobility Mass Spectrometry and Molecular Dynamics Simulation. Analytical Chemistry, 2013, 85, 4165-4171.	6.5	22
146	Influence of DNA methylation on positioning and DNA flexibility of nucleosomes with pericentric satellite DNA. Open Biology, 2015, 5, 150128.	3.6	22
147	Xeroderma pigmentosum group C protein interacts with histones: regulation by acetylated states of histone H3. Genes To Cells, 2017, 22, 310-327.	1.2	22
148	Câ€terminal acidic domain of histone chaperone human <scp>NAP</scp> 1 is an efficient binding assistant for histone H2Aâ€H2B, but not H3â€H4. Genes To Cells, 2016, 21, 252-263.	1.2	21
149	Stimulation of Dmc1-mediated DNA strand exchange by the human Rad54B protein. Nucleic Acids Research, 2006, 34, 4429-4437.	14.5	20
150	Deimination stabilizes histone H2A/H2B dimers as revealed by electrospray ionization mass spectrometry. Journal of Mass Spectrometry, 2010, 45, 900-908.	1.6	20
151	Purification of the Human SMN–GEMIN2 Complex and Assessment of Its Stimulation of RAD51-Mediated DNA Recombination Reactions. Biochemistry, 2011, 50, 6797-6805.	2.5	20
152	Telomeric repeats act as nucleosome-disfavouring sequences in vivo. Nucleic Acids Research, 2014, 42, 1541-1552.	14.5	20
153	Compensatory Functions and Interdependency of the DNA-Binding Domain of BRCA2 with the BRCA1–PALB2–BRCA2 Complex. Cancer Research, 2014, 74, 797-807.	0.9	20
154	Crystal Structure and Characterization of Novel Human Histone H3 Variants, H3.6, H3.7, and H3.8. Biochemistry, 2017, 56, 2184-2196.	2.5	20
155	SUMO modification system facilitates the exchange of histone variant H2A.Z-2 at DNA damage sites. Nucleus, 2018, 9, 87-94.	2.2	20
156	Cryo-EM structure of the nucleosome core particle containing <i>Giardia lamblia</i> histones. Nucleic Acids Research, 2021, 49, 8934-8946.	14.5	20
157	Nap1 regulates proper CENP-B binding to nucleosomes. Nucleic Acids Research, 2013, 41, 2869-2880.	14.5	19
158	Vital Roles of the Second DNA-binding Site of Rad52 Protein in Yeast Homologous Recombination. Journal of Biological Chemistry, 2011, 286, 17607-17617.	3.4	18
159	Structure of human nucleosome containing the testis-specific histone variant TSH2B. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 444-449.	0.8	18
160	Activation of the FA pathway mediated by phosphorylation and ubiquitination. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2017, 803-805, 89-95.	1.0	18
161	Incorporation and influence of <i>Leishmania</i> histone H3 in chromatin. Nucleic Acids Research, 2019, 47, 11637-11648.	14.5	18
162	Homologous Pairing Activities of Two Rice RAD51 Proteins, RAD51A1 and RAD51A2. PLoS ONE, 2013, 8, e75451.	2.5	18

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163	Recombination Activator Function of the Novel RAD51- and RAD51B-binding Protein, Human EVL. Journal of Biological Chemistry, 2009, 284, 14326-14336.	3.4	17
164	RAD51 Plays a Crucial Role in Halting Cell Death Program Induced by Ionizing Radiation in Bovine Oocytes1. Biology of Reproduction, 2012, 86, 76.	2.7	17
165	Crystal structure of the nucleosome containing ultraviolet light-induced cyclobutane pyrimidine dimer. Biochemical and Biophysical Research Communications, 2016, 471, 117-122.	2.1	17
166	Crystal structure of the nucleosome containing histone H3 with crotonylated lysine 122. Biochemical and Biophysical Research Communications, 2016, 469, 483-489.	2.1	17
167	Structural and biochemical analyses of the nuclear pore complex component ELYS identify residues responsible for nucleosome binding. Communications Biology, 2019, 2, 163.	4.4	17
168	Structural basis of nucleosomal histone H4 lysine 20 methylation by SET8 methyltransferase. Life Science Alliance, 2021, 4, e202000919.	2.8	17
169	Histone variant H2A.B-H2B dimers are spontaneously exchanged with canonical H2A-H2B in the nucleosome. Communications Biology, 2021, 4, 191.	4.4	17
170	A chimeric Rec-A protein that implicates non-Watson-Crick interactions in homologous pairing. Nucleic Acids Research, 1994, 22, 3387-3391.	14.5	16
171	Region and amino acid residues required for Rad51C binding in the human Xrcc3 protein. Nucleic Acids Research, 2003, 31, 4041-4050.	14.5	16
172	The putative nuclear localization signal of the human RAD52 protein is a potential sumoylation site. Journal of Biochemistry, 2010, 147, 833-842.	1.7	16
173	Green fluorescent protein fused to the C terminus of RAD51 specifically interferes with secondary DNA binding by the RAD51-ssDNA complex. Genes and Genetic Systems, 2014, 89, 169-179.	0.7	16
174	< scp>SYCP $<$ /scp>3 regulates strand invasion activities of $<$ scp>RAD $<$ /scp>51 and $<$ scp>DMC $<$ /scp>1. Genes To Cells, 2017, 22, 799-809.	1.2	16
175	The N-terminal Tails of Histones H2A and H2B Adopt Two Distinct Conformations in the Nucleosome with Contact and Reduced Contact to DNA. Journal of Molecular Biology, 2021, 433, 167110.	4.2	16
176	DNA Binding Properties of the Actin-Related Protein Arp8 and Its Role in DNA Repair. PLoS ONE, 2014, 9, e108354.	2.5	16
177	Interaction between Basic Residues of Epstein-Barr Virus EBNA1 Protein and Cellular Chromatin Mediates Viral Plasmid Maintenance. Journal of Biological Chemistry, 2013, 288, 24189-24199.	3.4	15
178	Structural Diversity of Nucleosomes Characterized by Native Mass Spectrometry. Analytical Chemistry, 2018, 90, 8217-8226.	6.5	15
179	Native Mass Spectrometry of Protein and DNA Complexes Prepared in Nonvolatile Buffers. Journal of the American Society for Mass Spectrometry, 2020, 31, 711-718.	2.8	15
180	Structural Studies of Overlapping Dinucleosomes in Solution. Biophysical Journal, 2020, 118, 2209-2219.	0.5	15

#	Article	IF	CITATIONS
181	Altered DNA Binding by the Human Rad51-R150Q Mutant Found in Breast Cancer Patients. Biological and Pharmaceutical Bulletin, 2007, 30, 1374-1378.	1.4	14
182	Structural and biochemical analyses of the human PAD4 variant encoded by a functional haplotype gene. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 112-118.	2.5	14
183	Biochemical analysis of nucleosome targeting by Tn5 transposase. Open Biology, 2019, 9, 190116.	3.6	14
184	Linker DNA and histone contributions in nucleosome binding by p53. Journal of Biochemistry, 2020, 168, 669-675.	1.7	14
185	Structural basis for the DNA-binding activity of the bacterial \hat{l}^2 -propeller protein YncE. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 1045-1053.	2.5	13
186	Human tNASP Promotes in Vitro Nucleosome Assembly with Histone H3.3. Biochemistry, 2015, 54, 1171-1179.	2.5	13
187	<pre><scp>hCAS</scp>/<scp>CSE</scp>1L regulates <scp>RAD</scp>51 distribution and focus formation for homologous recombinational repair. Genes To Cells, 2015, 20, 681-694.</pre>	1.2	13
188	Functional analyses of the C-terminal half of the Saccharomyces cerevisiae Rad52 protein. Nucleic Acids Research, 2014, 42, 941-951.	14.5	12
189	Chromatin architecture may dictate the target site for DMC1, but not for RAD51, during homologous pairing. Scientific Reports, 2016, 6, 24228.	3.3	12
190	MNase, as a probe to study the sequence-dependent site exposures in the +1 nucleosomes of yeast. Nucleic Acids Research, 2018, 46, 7124-7137.	14.5	12
191	A novel mode of DnaA–DnaA interaction promotes ADP dissociation for reactivation of replication initiation activity. Nucleic Acids Research, 2019, 47, 11209-11224.	14.5	12
192	Acetylation-modulated communication between the H3 N-terminal tail domain and the intrinsically disordered H1 C-terminal domain. Nucleic Acids Research, 2020, 48, 11510-11520.	14.5	12
193	Chromatin integration labeling for mapping DNA-binding proteins and modifications with low input. Nature Protocols, 2020, 15, 3334-3360.	12.0	12
194	Synthetic hyperacetylation of nucleosomal histones. RSC Chemical Biology, 2020, 1, 56-59.	4.1	12
195	Biochemical analysis of the N-terminal domain of human RAD54B. Nucleic Acids Research, 2008, 36, 5441-5450.	14.5	11
196	Structure of RizA, an <scp>L</scp> -amino-acid ligase from <i>Bacillus subtilis</i> . Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 1125-1130.	0.8	11
197	Homologous pairing activities of <i>Arabidopsis thaliana</i> RAD51 and DMC1. Journal of Biochemistry, 2019, 165, 289-295.	1.7	11
198	Neural stem/precursor cells dynamically change their epigenetic landscape to differentially respond to BMP signaling for fate switching during brain development. Genes and Development, 2021, 35, 1431-1444.	5.9	11

#	Article	IF	Citations
199	Structural and biochemical analyses of the nucleosome containing <i>Komagataella pastoris</i> histones. Journal of Biochemistry, 2022, 172, 79-88.	1.7	11
200	Solution structure of variant H2A.Z.1 nucleosome investigated by small-angle X-ray and neutron scatterings. Biochemistry and Biophysics Reports, 2015, 4, 28-32.	1.3	10
201	Mass Spectrometric Approach for Characterizing the Disordered Tail Regions of the Histone H2A/H2B Dimer. Analytical Chemistry, 2015, 87, 2220-2227.	6.5	10
202	Nucleosome organization and chromatin dynamics in telomeres. Biomolecular Concepts, 2015, 6, 67-75.	2.2	10
203	Identification of the amino acid residues responsible for stable nucleosome formation by histone H3.Y. Nucleus, 2017, 8, 239-248.	2.2	10
204	InÂvitro reconstitution and biochemical analyses of the Schizosaccharomyces pombe nucleosome. Biochemical and Biophysical Research Communications, 2017, 482, 896-901.	2.1	10
205	Intrabody-based FRET probe to visualize endogenous histone acetylation. Scientific Reports, 2019, 9, 10188.	3.3	10
206	Mitotic phosphorylation of HP1 $\hat{l}\pm$ regulates its cell cycle-dependent chromatin binding. Journal of Biochemistry, 2019, 165, 433-446.	1.7	10
207	The Nâ€terminal and Câ€terminal halves of histone H2A.Z independently function in nucleosome positioning and stability. Genes To Cells, 2020, 25, 538-546.	1.2	10
208	Organoruthenium-catalyzed chemical protein synthesis to elucidate the functions of epigenetic modifications on heterochromatin factors. Chemical Science, 2021, 12, 5926-5937.	7.4	10
209	Identification of functional domains of the Escherichia coli SeqA protein. Biochemical and Biophysical Research Communications, 2003, 300, 699-705.	2.1	9
210	Structural Analysis of the Human Rad51 Protein–DNA Complex Filament by Tryptophan Fluorescence Scanning Analysis: Transmission of Allosteric Effects between ATP Binding and DNA Binding. Journal of Molecular Biology, 2008, 383, 575-587.	4.2	9
211	Polymorphism of apyrimidinic DNA structures in the nucleosome. Scientific Reports, 2017, 7, 41783.	3.3	9
212	Essentiality of CENP-A Depends on Its Binding Mode to HJURP. Cell Reports, 2020, 33, 108388.	6.4	9
213	Integral approach to biomacromolecular structure by analytical-ultracentrifugation and small-angle scattering. Communications Biology, 2020, 3, 294.	4.4	9
214	Structural basis for binding diversity of acetyltransferase p300 to the nucleosome. IScience, 2022, 25, 104563.	4.1	9
215	Specific defects in double-stranded DNA unwinding and homologous pairing of a mutant RecA protein. FEBS Letters, 2000, 477, 129-134.	2.8	8
216	Human FAN1 promotes strand incision in 5′-flapped DNA complexed with RPA. Journal of Biochemistry, 2015, 158, 263-270.	1.7	8

#	Article	IF	Citations
217	Relaxed Chromatin Formation and Weak Suppression of Homologous Pairing by the Testis-Specific Linker Histone H1T. Biochemistry, 2016, 55, 637-646.	2.5	8
218	Structure-based design of an H2A.Z.1 mutant stabilizing a nucleosome inÂvitro and inÂvivo. Biochemical and Biophysical Research Communications, 2019, 515, 719-724.	2.1	8
219	Structural basis for DNA sequence recognition by pioneer factors in nucleosomes. Current Opinion in Structural Biology, 2021, 71, 59-64.	5.7	8
220	Biochemical analysis of the human DMC1â€I37N polymorphism. FEBS Journal, 2009, 276, 457-465.	4.7	7
221	Structure of the CENP-A nucleosome and its implications for centromeric chromatin architecture. Genes and Genetic Systems, 2011, 86, 357-364.	0.7	7
222	Human PSF concentrates DNA and stimulates duplex capture in DMC1-mediated homologous pairing. Nucleic Acids Research, 2012, 40, 3031-3041.	14.5	7
223	Unusual nucleosome formation and transcriptome influence by the histone H3mm18 variant. Nucleic Acids Research, 2022, 50, 72-91.	14.5	7
224	Incorporation of DUF/FACT into chromatin enhances the accessibility of nucleosomal DNA. Biochemical and Biophysical Research Communications, 2003, 303, 8-13.	2.1	6
225	Holliday junction–binding activity of human SPF45. Genes To Cells, 2010, 15, 373-383.	1.2	6
226	Purification and characterization of the fission yeast telomere clustering factors, Bqt1 and Bqt2. Protein Expression and Purification, 2013, 88, 207-213.	1.3	6
227	Expression and purification of human FANCI and FANCD2 using Escherichia coli cells. Protein Expression and Purification, 2014, 103, 8-15.	1.3	6
228	Biochemical and structural analyses of the nucleosome containing human histone H2A.J. Journal of Biochemistry, 2020, 167, 419-427.	1.7	6
229	Chromatin structure-dependent histone incorporation revealed by a genome-wide deposition assay. ELife, 2021, 10, .	6.0	6
230	Nucleosome destabilization by nuclear non-coding RNAs. Communications Biology, 2020, 3, 60.	4.4	6
231	Proton NMR Study on a Histone-like Protein, HU.ALPHA., from Escherichia coli and Its Complex with Oligo DNAs Biological and Pharmaceutical Bulletin, 1993, 16, 437-443.	1.4	5
232	Defective FANCI Binding by a Fanconi Anemia-Related FANCD2 Mutant. PLoS ONE, 2014, 9, e114752.	2.5	5
233	Structure of the human DNA-repair protein RAD52 containing surface mutations. Acta Crystallographica Section F, Structural Biology Communications, 2016, 72, 598-603.	0.8	5
234	Sequence-directed nucleosome-depletion is sufficient to activate transcription from a yeast core promoter inÂvivo. Biochemical and Biophysical Research Communications, 2016, 476, 57-62.	2.1	5

#	Article	IF	Citations
235	Influence of polynucleosome preparation methods on sedimentation velocity analysis of chromatin. Journal of Biochemistry, 2017, 161, 381-388.	1.7	5
236	Parallel mapping with site-directed hydroxyl radicals and micrococcal nuclease reveals structural features of positioned nucleosomes in vivo. PLoS ONE, 2017, 12, e0186974.	2.5	5
237	Characteristic H3 N-tail dynamics in the nucleosome core particle, nucleosome, and chromatosome. IScience, 2022, 25, 103937.	4.1	5
238	Specific and nonspecific interactions of integration host factor with oligo DNAs as revealed by circular dichroism spectroscopy and filter binding assay. Archives of Biochemistry and Biophysics, 1992, 295, 297-301.	3.0	4
239	Single-stranded DNA catenation mediated by human EVL and a type I topoisomerase. Nucleic Acids Research, 2010, 38, 7579-7586.	14.5	4
240	Crystallization and preliminary X-ray diffraction analysis of the secreted protein Athe_0614 fromCaldicellulosiruptor bescii. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 438-440.	0.7	4
241	Chargeâ€neutralization effect of the tail regions on the histone <scp>H</scp> 2 <scp>A</scp> / <scp>H</scp> 2 <scp>B</scp> dimer structure. Protein Science, 2015, 24, 1224-1231.	7.6	4
242	Evolution of Epidermal Growth Factor (EGF)-like and Zona Pellucida Domains Containing Shell Matrix Proteins in Mollusks. Molecular Biology and Evolution, 2022, 39, .	8.9	4
243	In Vivo and in Vitro Footprinting of Nucleosomes and Transcriptional Activators Using an Infrared-Fluorescence DNA Sequencer. Biological and Pharmaceutical Bulletin, 2008, 31, 187-192.	1.4	3
244	Biochemical analysis of the human ENA/VASP-family proteins, MENA, VASP and EVL, in homologous recombination. Journal of Biochemistry, 2011, 149, 721-729.	1.7	3
245	Structural polymorphism of the Escherichia coli poly-α-L-glutamate synthetase RimK. Acta Crystallographica Section F, Structural Biology Communications, 2018, 74, 385-390.	0.8	3
246	Biochemical characterization of the placeholder nucleosome for DNA hypomethylation maintenance. Biochemistry and Biophysics Reports, 2019, 18, 100634.	1.3	3
247	Biochemical analysis of the human EVL domains in homologous recombination. FEBS Journal, 2009, 276, 5841-5848.	4.7	2
248	Structural studies of functional nucleosome complexes with transacting factors. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2022, 98, 1-14.	3.8	2
249	Structure determination of the nucleosome core particle by selenium SAD phasing. Acta Crystallographica Section D: Structural Biology, 2019, 75, 930-936.	2.3	1
250	Sequence-dependent nucleosome formation in trinucleotide repeats evaluated by inÂvivo chemical mapping. Biochemical and Biophysical Research Communications, 2021, 556, 179-184.	2.1	1
251	Nucleosome Structure. , 2013, , 1552-1556.		1
252	Modeling population size independent tissue epigenomes by ChlLâ€seq with single thin sections. Molecular Systems Biology, 2021, 17, e10323.	7.2	1

#	Article	IF	CITATIONS
253	Structural and functional analyses of proteins involved in translation, DNA recombination, chromosome architecture, and signal transduction. Progress in Biotechnology, 2002, 22, 169-180.	0.2	0
254	Dynamics in the transmission of genetic information: from meiosis to postmeiotic events. FEBS Journal, 2010, 277, 564-564.	4.7	0
255	2SCP-02 Structural versatility of nucleosomes in higher order chromatin(2SCP Functional dynamics) Tj ETQq1 1 0	.784314 r 0.1	gBT /Overloo O
256	2SDA-01 Structural basis of chromatin dynamics regulated by histone variants(2SDA Studies of) Tj ETQq0 0 0 rgB	T /Overloc 0.1	k 10 Tf 50 6. O
257	Crystal Structure of Overlapping Dinucleosome, the New Basic Unit of Chromatin. Seibutsu Butsuri, 2017, 57, 309-311.	0.1	O
258	Crystallographic analysis of the overlapping dinucleosome as a novel chromatin unit. Biophysics and Physicobiology, 2018, 15, 251-254.	1.0	0
259	Improved Methods for Preparing the Telomere Tethering Complex Bqt1–Bqt2 for Structural Studies. Protein Journal, 2020, 39, 174-181.	1.6	0
260	Inactivation Mechanism of an Innate Immune DNA Sensor cGAS by Self-chromatinized DNA. Seibutsu Butsuri, 2021, 61, 324-326.	0.1	0
261	Structure and Function of Centromeric Nucleosomes Containing CENP-A. Seibutsu Butsuri, 2012, 52, 220-225.	0.1	0
262	Cryo-EM Analysis of Chromatin. Nihon Kessho Gakkaishi, 2022, 64, 65-68.	0.0	0