Michael R Lieber

List of Publications by Year
in descending order

161 papers	19,269 citations	13099 68 h-index	11607 135 g-index
232 all docs	232 docs citations	232 times ranked	14939 citing authors

#	Article	IF	Citations
1	The Mechanism of Double-Strand DNA Break Repair by the Nonhomologous DNA End-Joining Pathway. Annual Review of Biochemistry, 2010, 79, 181-211.	11.1	2,299
2	Non-homologous DNA end joining and alternative pathways to double-strand break repair. Nature Reviews Molecular Cell Biology, 2017, 18, 495-506.	37.0	1,152
3	Hairpin Opening and Overhang Processing by an Artemis/DNA-Dependent Protein Kinase Complex in Nonhomologous End Joining and V(D)J Recombination. Cell, 2002, 108, 781-794.	28.9	969
4	Mechanism and regulation of human non-homologous DNA end-joining. Nature Reviews Molecular Cell Biology, 2003, 4, 712-720.	37.0	864
5	R-loops at immunoglobulin class switch regions in the chromosomes of stimulated B cells. Nature Immunology, 2003, 4, 442-451.	14.5	644
6	Activity of DNA ligase IV stimulated by complex formation with XRCC4 protein in mammalian cells. Nature, 1997, 388, 492-495.	27.8	586
7	The Mechanism of Human Nonhomologous DNA End Joining. Journal of Biological Chemistry, 2008, 283, 1-5.	3.4	566
8	The defect in murine severe combined immune deficiency: Joining of signal sequences but not coding segments in V(D)J recombination. Cell, 1988, 55, 7-16.	28.9	445
9	The FENâ€1 family of structureâ€specific nucleases in eukaryotic dna replication, recombination and repair. BioEssays, 1997, 19, 233-240.	2.5	434
10	Yeast DNA ligase IV mediates non-homologous DNA end joining. Nature, 1997, 388, 495-498.	27.8	381
11	Nonhomologous DNA end-joining for repair of DNA double-strand breaks. Journal of Biological Chemistry, 2018, 293, 10512-10523.	3.4	358
12	Extrachromosomal DNA substrates in pre-B cells undergo inversion or deletion at immunoglobulin V-(D)-J joining signals. Cell, 1987, 49, 775-783.	28.9	353
13	A Biochemically Defined System for Mammalian Nonhomologous DNA End Joining. Molecular Cell, 2004, 16, 701-713.	9.7	319
14	Bidirectional Gene Organization. Cell, 2002, 109, 807-809.	28.9	316
15	DNA Ligase IV Is Essential for V(D)J Recombination and DNA Double-Strand Break Repair in Human Precursor Lymphocytes. Molecular Cell, 1998, 2, 477-484.	9.7	305
16	Lagging Strand DNA Synthesis at the Eukaryotic Replication Fork Involves Binding and Stimulation of FEN-1 by Proliferating Cell Nuclear Antigen. Journal of Biological Chemistry, 1995, 270, 22109-22112.	3.4	253
17	A non-B-DNA structure at the Bcl-2 major breakpoint region is cleaved by the RAG complex. Nature, 2004, 428, 88-93.	27.8	224
18	FACT-Mediated Exchange of Histone Variant H2AX Regulated by Phosphorylation of H2AX and ADP-Ribosylation of Spt16. Molecular Cell, 2008, 30, 86-97.	9.7	219

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19	The molecular basis and disease relevance of non-homologous DNA end joining. Nature Reviews Molecular Cell Biology, 2020, 21, 765-781.	37.0	217
20	Human Chromosomal Translocations at CpG Sites and a Theoretical Basis for Their Lineage and Stage Specificity. Cell, 2008, 135, 1130-1142.	28.9	207
21	RNA: DNA complex formation upon transcription of immunoglobulin switch regions: implications for the mechanism and regualtion of class switch recombination. Nucleic Acids Research, 1995, 23, 5006-5011.	14.5	196
22	The mechanism of vertebrate nonhomologous DNA end joining and its role in V(D)J recombination. DNA Repair, 2004, 3, 817-826.	2.8	195
23	Efficient Processing of DNA Ends during Yeast Nonhomologous End Joining. Journal of Biological Chemistry, 1999, 274, 23599-23609.	3.4	187
24	Severe combined immunodeficiency and microcephaly in siblings with hypomorphic mutations in DNA ligase IV. European Journal of Immunology, 2006, 36, 224-235.	2.9	182
25	DNA Substrate Length and Surrounding Sequence Affect the Activation-induced Deaminase Activity at Cytidine. Journal of Biological Chemistry, 2004, 279, 6496-6500.	3.4	178
26	Oxygen Metabolism Causes Chromosome Breaks and Is Associated with the Neuronal Apoptosis Observed in DNA Double-Strand Break Repair Mutants. Current Biology, 2002, 12, 397-402.	3.9	166
27	Mechanisms of clonal evolution in childhood acute lymphoblastic leukemia. Nature Immunology, 2015, 16, 766-774.	14.5	163
28	Siteâ€specific recombination in the immune system ¹. FASEB Journal, 1991, 5, 2934-2944.	0.5	160
29	Roles of nonhomologous DNA end joining, V(D)J recombination, and class switch recombination in chromosomal translocations. DNA Repair, 2006, 5, 1234-1245.	2.8	159
30	The biochemistry and biological significance of nonhomologous DNA end joining: an essential repair process in multicellular eukaryotes. Genes To Cells, 1999, 4, 77-85.	1.2	157
31	Productive and Nonproductive Complexes of Ku and DNA-Dependent Protein Kinase at DNA Termini. Molecular and Cellular Biology, 1998, 18, 5908-5920.	2.3	156
32	The Artemis:DNA-PKcs endonuclease cleaves DNA loops, flaps, and gaps. DNA Repair, 2005, 4, 845-851.	2.8	149
33	Organization and dynamics of the nonhomologous end-joining machinery during DNA double-strand break repair. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2575-84.	7.1	142
34	Requirement for an Interaction of XRCC4 with DNA Ligase IV for Wild-type V(D)J Recombination and DNA Double-strand Break Repairin Vivo. Journal of Biological Chemistry, 1998, 273, 24708-24714.	3.4	139
35	XRCC4:DNA ligase IV can ligate incompatible DNA ends and can ligate across gaps. EMBO Journal, 2007, 26, 1010-1023.	7.8	135
36	DNA ligase IV binds to XRCC4 via a motif located between rather than within its BRCT domains. Current Biology, 1998, 8, 873-879.	3.9	133

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37	Mechanism of R-Loop Formation at Immunoglobulin Class Switch Sequences. Molecular and Cellular Biology, 2008, 28, 50-60.	2.3	133
38	The nonhomologous DNA end joining pathway is important for chromosome stability in primary fibroblasts. Current Biology, 1999, 9, 1501-1506.	3.9	129
39	G Clustering Is Important for the Initiation of Transcription-Induced R-Loops In Vitro, whereas High G Density without Clustering Is Sufficient Thereafter. Molecular and Cellular Biology, 2009, 29, 3124-3133.	2.3	127
40	Competition between the RNA Transcript and the Nontemplate DNA Strand during R-Loop Formation In Vitro: a Nick Can Serve as a Strong R-Loop Initiation Site. Molecular and Cellular Biology, 2010, 30, 146-159.	2.3	124
41	Functional and biochemical dissection of the structure-specific nuclease ARTEMIS. EMBO Journal, 2004, 23, 1987-1997.	7.8	122
42	Analysis of the V(D)J Recombination Efficiency at Lymphoid Chromosomal Translocation Breakpoints. Journal of Biological Chemistry, 2001, 276, 29126-29133.	3.4	120
43	The DNA-dependent Protein Kinase Catalytic Subunit Phosphorylation Sites in Human Artemis. Journal of Biological Chemistry, 2005, 280, 33839-33846.	3.4	119
44	Pathological and Physiological Double-Strand Breaks. American Journal of Pathology, 1998, 153, 1323-1332.	3.8	118
45	Mechanisms of human lymphoid chromosomal translocations. Nature Reviews Cancer, 2016, 16, 387-398.	28.4	114
46	H3K4me3 Stimulates the V(D)J RAG Complex for Both Nicking and Hairpinning in trans in Addition to Tethering in cis: Implications for Translocations. Molecular Cell, 2009, 34, 535-544.	9.7	111
47	Single-stranded DNA ligation and XLF-stimulated incompatible DNA end ligation by the XRCC4-DNA ligase IV complex: influence of terminal DNA sequence. Nucleic Acids Research, 2007, 35, 5755-5762.	14.5	107
48	Non-homologous end joining often uses microhomology: Implications for alternative end joining. DNA Repair, 2014, 17, 74-80.	2.8	107
49	Formation of a G-quadruplex at the BCL2 major breakpoint region of the t(14;18) translocation in follicular lymphoma. Nucleic Acids Research, 2011, 39, 936-948.	14.5	106
50	Nonhomologous DNA End Joining (NHEJ) and Chromosomal Translocations in Humans. Sub-Cellular Biochemistry, 2010, 50, 279-296.	2.4	105
51	Ageing, repetitive genomes and DNA damage. Nature Reviews Molecular Cell Biology, 2004, 5, 69-75.	37.0	104
52	DNA-PKcs Dependence of Artemis Endonucleolytic Activity, Differences between Hairpins and 5â€² or 3â€² Overhangs. Journal of Biological Chemistry, 2006, 281, 33900-33909.	3.4	95
53	Repair of Double-Strand DNA Breaks by the Human Nonhomologous DNA End Joining Pathway: The Iterative Processing Model. Cell Cycle, 2005, 4, 1193-1200.	2.6	94
54	Length-dependent Binding of Human XLF to DNA and Stimulation of XRCC4Â·DNA Ligase IV Activity*. Journal of Biological Chemistry, 2007, 282, 11155-11162.	3.4	91

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55	Generation and Characterization of Endonuclease G Null Mice. Molecular and Cellular Biology, 2005, 25, 294-302.	2.3	90
56	Extent to which homology can constrain coding exon junctional diversity in V(D)J recombination. Nature, 1993, 363, 625-627.	27.8	89
57	The embryonic lethality in DNA ligase IV-deficient mice is rescued by deletion of Ku: implications for unifying the heterogeneous phenotypes of NHEJ mutants. DNA Repair, 2002, 1, 1017-1026.	2.8	88
58	NHEJ and its backup pathways in chromosomal translocations. Nature Structural and Molecular Biology, 2010, 17, 393-395.	8.2	86
59	Evidence for a Triplex DNA Conformation at the bcl-2 Major Breakpoint Region of the t(14;18) Translocation. Journal of Biological Chemistry, 2005, 280, 22749-22760.	3.4	84
60	Different DNA End Configurations Dictate Which NHEJ Components Are Most Important for Joining Efficiency. Journal of Biological Chemistry, 2016, 291, 24377-24389.	3.4	83
61	Sequence Dependence of Chromosomal R-Loops at the Immunoglobulin Heavy-Chain SÎ¼ Class Switch Region. Molecular and Cellular Biology, 2007, 27, 5921-5932.	2.3	82
62	Flexibility in the order of action and in the enzymology of the nuclease, polymerases, and ligase of vertebrate non-homologous DNA end joining: relevance to cancer, aging, and the immune system. Cell Research, 2008, 18, 125-133.	12.0	81
63	A noncatalytic function of the ligation complex during nonhomologous end joining. Journal of Cell Biology, 2013, 200, 173-186.	5.2	81
64	DNA Structural Elements Required for FEN-1 Binding. Journal of Biological Chemistry, 1995, 270, 4503-4508.	3.4	78
65	Binding of Inositol Hexakisphosphate (IP6) to Ku but Not to DNA-PKcs. Journal of Biological Chemistry, 2002, 277, 10756-10759.	3.4	78
66	Nucleic acid structures and enzymes in the immunoglobulin class switch recombination mechanism. DNA Repair, 2003, 2, 1163-1174.	2.8	77
67	Mechanisms of chromosomal rearrangement in the human genome. BMC Genomics, 2010, 11, S1.	2.8	75
68	The essential elements for the noncovalent association of two DNA ends during NHEJ synapsis. Nature Communications, 2019, 10, 3588.	12.8	72
69	The RAG-HMG1 Complex Enforces the 12/23 Rule of V(D)J Recombination Specifically at the Double-Hairpin Formation Step. Molecular and Cellular Biology, 1998, 18, 6408-6415.	2.3	69
70	Current insights into the mechanism of mammalian immunoglobulin class switch recombination. Critical Reviews in Biochemistry and Molecular Biology, 2019, 54, 333-351.	5.2	69
71	DEAE-dextran enhances electroporation of mammalian cells. Nucleic Acids Research, 1992, 20, 6739-6740.	14.5	67
72	Impact of DNA ligase IV on the fidelity of end joining in human cells. Nucleic Acids Research, 2003, 31, 2157-2167.	14.5	67

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73	Double-Strand Break Formation by the RAG Complex at the Bcl-2 Major Breakpoint Region and at Other Non-B DNA Structures In Vitro. Molecular and Cellular Biology, 2005, 25, 5904-5919.	2.3	67
74	DNA structures at chromosomal translocation sites. BioEssays, 2006, 28, 480-494.	2.5	63
75	The Nicking Step in V(D)J Recombination Is Independent of Synapsis: Implications for the Immune Repertoire. Molecular and Cellular Biology, 2000, 20, 7914-7921.	2.3	62
76	Downstream boundary of chromosomal R-loops at murine switch regions: Implications for the mechanism of class switch recombination. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5030-5035.	7.1	62
77	IgH partner breakpoint sequences provide evidence that AID initiates t(11;14) and t(8;14) chromosomal breaks in mantle cell and Burkitt lymphomas. Blood, 2012, 120, 2864-2867.	1.4	60
78	DNA-PKcs regulates a single-stranded DNA endonuclease activity of Artemis. DNA Repair, 2010, 9, 429-437.	2.8	58
79	SCR7 is neither a selective nor a potent inhibitor of human DNA ligase IV. DNA Repair, 2016, 43, 18-23.	2.8	57
80	Fine-Structure Analysis of Activation-Induced Deaminase Accessibility to Class Switch Region R-Loops. Molecular and Cellular Biology, 2005, 25, 1730-1736.	2.3	56
81	Genetic Interactions between BLM and DNA Ligase IV in Human Cells. Journal of Biological Chemistry, 2004, 279, 55433-55442.	3.4	55
82	SnapShot: Nonhomologous DNA End Joining (NHEJ). Cell, 2010, 142, 496-496.e1.	28.9	53
83	DNA Ligase IV Guides End-Processing Choice during Nonhomologous End Joining. Cell Reports, 2017, 20, 2810-2819.	6.4	53
84	Prevalent Involvement of Illegitimate V(D)J Recombination in Chromosome 9p21 Deletions in Lymphoid Leukemia. Journal of Biological Chemistry, 2002, 277, 46289-46297.	3.4	50
85	Structure-Specific nuclease activities of Artemis and the Artemis: DNA-PKcs complex. Nucleic Acids Research, 2016, 44, 4991-4997.	14.5	50
86	Evidence That the DNA Endonuclease ARTEMIS also Has Intrinsic 5â€²-Exonuclease Activity. Journal of Biological Chemistry, 2014, 289, 7825-7834.	3.4	48
87	Mechanistic Basis for Coding End Sequence Effects in the Initiation of V(D)J Recombination. Molecular and Cellular Biology, 1999, 19, 8094-8102.	2.3	45
88	Polynucleotide Kinase and Aprataxin-like Forkhead-associated Protein (PALF) Acts as Both a Single-stranded DNA Endonuclease and a Single-Stranded DNA 3â€² Exonuclease and Can Participate in DNA End Joining in a Biochemical System. Journal of Biological Chemistry, 2011, 286, 36368-36377.	3.4	43
89	Unifying the DNA End-processing Roles of the Artemis Nuclease. Journal of Biological Chemistry, 2015, 290, 24036-24050.	3.4	43
90	Chromosomal Translocations and Non-B DNA Structures in the Human Genome. Cell Cycle, 2004, 3, 760-766.	2.6	41

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91	Conformational Variants of Duplex DNA Correlated with Cytosine-rich Chromosomal Fragile Sites. Journal of Biological Chemistry, 2009, 284, 7157-7164.	3.4	40
92	Mechanistic flexibility as a conserved theme across 3 billion years of nonhomologous DNA end-joining: Table 1.. Genes and Development, 2008, 22, 411-415.	5.9	39
93	A Biochemically Defined System for Coding Joint Formation in V(D)J Recombination. Molecular Cell, 2008, 31, 485-497.	9.7	38
94	Turning anti-ageing genes against cancer. Nature Reviews Molecular Cell Biology, 2008, 9, 903-910.	37.0	36
95	The Cleavage Efficiency of the Human Immunoglobulin Heavy Chain VH Elements by the RAG Complex. Journal of Biological Chemistry, 2002, 277, 5040-5046.	3.4	35
96	Bridging of double-stranded breaks by the nonhomologous end-joining ligation complex is modulated by DNA end chemistry. Nucleic Acids Research, 2017, 45, 1872-1878.	14.5	35
97	Complexities due to single-stranded RNA during antibody detection of genomic rna:dna hybrids. BMC Research Notes, 2015, 8, 127.	1.4	34
98	Analysis of individual immunoglobulin Î» light chain genes amplified from single cells is inconsistent with variable region gene conversion in germinal-center B cell somatic mutation. European Journal of Immunology, 1994, 24, 1816-1822.	2.9	32
99	Extent to which hairpin opening by the Artemis:DNA-PKcs complex can contribute to junctional diversity in V(D)J recombination. Nucleic Acids Research, 2007, 35, 6917-6923.	14.5	32
100	BCL6 breaks occur at different AID sequence motifs in Igâ€“BCL6 and non-Igâ€“BCL6 rearrangements. Blood, 2013, 121, 4551-4554.	1.4	32
101	Dissecting the Roles of Divergent and Convergent Transcription in Chromosome Instability. Cell Reports, 2016, 14, 1025-1031.	6.4	32
102	Large chromosome deletions, duplications, and gene conversion events accumulate with age in normal human colon crypts. Aging Cell, 2013, 12, 269-279.	6.7	31
103	The Strength of an Ig Switch Region Is Determined by Its Ability to Drive R Loop Formation and Its Number of WGCW Sites. Cell Reports, 2014, 8, 557-569.	6.4	30
104	Effects of DNA end configuration on XRCC4-DNA ligase IV and its stimulation of Artemis activity. Journal of Biological Chemistry, 2017, 292, 13914-13924.	3.4	29
105	Both V(D)J Coding Ends but Neither Signal End Can Recombine at the bcl-2 Major Breakpoint Region, and the Rejoining Is Ligase IV Dependent. Molecular and Cellular Biology, 2005, 25, 6475-6484.	2.3	28
106	Detection and Structural Analysis of Râ€Loops. Methods in Enzymology, 2006, 409, 316-329.	1.0	26
107	Unexpected complexity at breakpoint junctions in phenotypically normal individuals and mechanisms involved in generating balanced translocations t(1;22)(p36;q13). Genome Research, 2008, 18, 1733-1742.	5.5	26
108	Cytosines, but Not Purines, Determine Recombination Activating Gene (RAG)-induced Breaks on Heteroduplex DNA Structures. Journal of Biological Chemistry, 2010, 285, 7587-7597.	3.4	26

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109	Both CpG Methylation and Activation-Induced Deaminase Are Required for the Fragility of the Human <i>bcl-2</i> Major Breakpoint Region: Implications for the Timing of the Breaks in the t(14;18) Translocation. Molecular and Cellular Biology, 2013, 33, 947-957.	2.3	26
110	The role of G-density in switch region repeats for immunoglobulin class switch recombination. Nucleic Acids Research, 2014, 42, 13186-13193.	14.5	25
111	Stability and Strand Asymmetry in the Non-B DNA Structure at the bcl-2 Major Breakpoint Region. Journal of Biological Chemistry, 2004, 279, 46213-46225.	3.4	24
112	DNA structure and human diseases. Frontiers in Bioscience - Landmark, 2007, 12, 4402.	3.0	23
113	V(D)J recombination activity in human hematopoietic cells: correlation with developmental stage and genome stability. European Journal of Immunology, 1998, 28, 351-358.	2.9	22
114	Convergent BCL6 and lncRNA promoters demarcate the major breakpoint region for BCL6 translocations. Blood, 2015, 126, 1730-1731.	1.4	22
115	Analysis of Nonâ€B DNA Structure at Chromosomal Sites in the Mammalian Genome. Methods in Enzymology, 2006, 409, 301-316.	1.0	21
116	The structure-specific nicking of small heteroduplexes by the RAG complex: Implications for lymphoid chromosomal translocations. DNA Repair, 2007, 6, 751-759.	2.8	21
117	The t(14;18)(q32;q21)/IGH-MALT1 translocation in MALT lymphomas is a CpG-type translocation, but the t(11;18)(q21;q21)/API2-MALT1 translocation in MALT lymphomas is not. Blood, 2010, 115, 3640-3641.	1.4	21
118	t(X;14)(p22;q32)/t(Y;14)(p11;q32) CRLF2-IGH translocations from human B-lineage ALLs involve CpG-type breaks at CRLF2, but CRLF2/P2RY8 intrachromosomal deletions do not. Blood, 2010, 116, 1993-1994.	1.4	19
119	Radiation Dose Does Matter: Mechanistic Insights into DNA Damage and Repair Support the Linear No-Threshold Model of Low-Dose Radiation Health Risks. Journal of Nuclear Medicine, 2018, 59, 1014-1016.	5.0	19
120	A Meta-analysis of Multiple Myeloma Risk Regions in African and European Ancestry Populations Identifies Putatively Functional Loci. Cancer Epidemiology Biomarkers and Prevention, 2016, 25, 1609-1618.	2.5	18
121	AID and Reactive Oxygen Species Can Induce DNA Breaks within Human Chromosomal Translocation Fragile Zones. Molecular Cell, 2017, 68, 901-912.e3.	9.7	17
122	Structural analysis of the catalytic domain of Artemis endonuclease/SNM1C reveals distinct structural features. Journal of Biological Chemistry, 2020, 295, 12368-12377.	3.4	17
123	The Polymerases for V(D)J Recombination. Immunity, 2006, 25, 7-9.	14.3	16
124	Hybrid joint formation in human V(D)J recombination requires nonhomologous DNA end joining. DNA Repair, 2006, 5, 278-285.	2.8	15
125	Is there any genetic instability in human cancer?. DNA Repair, 2010, 9, 858.	2.8	15
126	DNA-PKcs chemical inhibition versus genetic mutation: Impact on the junctional repair steps of V(D)J recombination. Molecular Immunology, 2020, 120, 93-100.	2.2	15

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127	Real-time analysis of RAG complex activity in V(D)J recombination. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11853-11858.	7.1	14
128	Polymerase Î¼ in non-homologous DNA end joining: importance of the order of arrival at a double-strand break in a purified system. Nucleic Acids Research, 2020, 48, 3605-3618.	14.5	14
129	Detection and characterization of R-loops at the murine immunoglobulin SÎ± region. Molecular Immunology, 2013, 54, 208-216.	2.2	13
130	Histone methylation and V(D)J recombination. International Journal of Hematology, 2014, 100, 230-237.	1.6	13
131	Antibody diversity: A link between switching and hypermutation. Current Biology, 2000, 10, R798-R800.	3.9	12
132	Concept of DNA Lesion Longevity and Chromosomal Translocations. Trends in Biochemical Sciences, 2018, 43, 490-498.	7.5	12
133	Mechanistic Aspects of Lymphoid Chromosomal Translocations. Journal of the National Cancer Institute Monographs, 2008, 2008, 8-11.	2.1	11
134	Structural analysis of the basal state of the Artemis:DNA-PKcs complex. Nucleic Acids Research, 2022, 50, 7697-7720.	14.5	11
135	In Vitro Nonhomologous DNA End Joining System. Methods in Enzymology, 2006, 408, 502-510.	1.0	10
136	RNA Polymerase Collision versus DNA Structural Distortion: Twists and Turns Can Cause Break Failure. Molecular Cell, 2016, 62, 327-334.	9.7	9
137	Mechanistic Basis for RAG Discrimination between Recombination Sites and the Off-Target Sites of Human Lymphomas. Molecular and Cellular Biology, 2012, 32, 365-375.	2.3	8
138	Modeling of the RAG Reaction Mechanism. Cell Reports, 2014, 7, 307-315.	6.4	8
139	Human Lymphoid Translocation Fragile Zones Are Hypomethylated and Have Accessible Chromatin. Molecular and Cellular Biology, 2015, 35, 1209-1222.	2.3	8
140	Kinetic analysis of the nicking and hairpin formation steps in V(D)J recombination. DNA Repair, 2004, 3, 67-75.	2.8	7
141	Structural evidence for an in trans base selection mechanism involving Loop1 in polymerase Î¼ at an NHEJ double-strand break junction. Journal of Biological Chemistry, 2019, 294, 10579-10595.	3.4	7
142	The mRNA tether model for activation-induced deaminase and its relevance for Ig somatic hypermutation and class switch recombination. DNA Repair, 2022, 110, 103271.	2.8	7
143	DNA Repair After Exposure to Ionizing Radiation Is Not Error-Free. Journal of Nuclear Medicine, 2018, 59, 348-348.	5.0	6
144	Structural step forward for NHEJ. Cell Research, 2017, 27, 1304-1306.	12.0	5

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145	Mechanistic basis for chromosomal translocations at the E2A gene and its broader relevance to human B cell malignancies. Cell Reports, 2021, 36, 109387.	6.4	5
146	Microinjection of Culture Cells via Fusion with Loaded Erythrocytes. , 1987, , 457-478.		5
147	Effect of CpG dinucleotides within IgH switch region repeats on immunoglobulin class switch recombination. Molecular Immunology, 2015, 66, 284-289.	2.2	4
148	The mechanisms of human lymphoid chromosomal translocations and their medical relevance. Critical Reviews in Biochemistry and Molecular Biology, 2022, 57, 227-243.	5.2	4
149	The repetitive portion of the Xenopus IgH Mu switch region mediates orientation-dependent class switch recombination. Molecular Immunology, 2015, 67, 524-531.	2.2	3
150	Nonhomologous DNA end joining of nucleosomal substrates in a purified system. DNA Repair, 2021, 106, 103193.	2.8	3
151	Chromatin Structure Near an Expressed Gene. , 1987, , 99-109.		3
152	Reply: Radiation Dose Does Matter: Mechanistic Insights into DNA Damage and Repair Support the Linear No-Threshold Model of Low-Dose Radiation Health Risks. Journal of Nuclear Medicine, 2018, 59, 1780-1781.	5.0	2
153	Transposons to V(D)J Recombination: Evolution of the RAG Reaction. Trends in Immunology, 2019, 40, 668-670.	6.8	2
154	Mechanism of Râ€Loop formation at Immunoglobulin Class Switch sequences. FASEB Journal, 2008, 22, 416-416.	0.5	2
155	NAD+ is not utilized as a co-factor for DNA ligation by human DNA ligase IV. Nucleic Acids Research, 2020, 48, 12746-12750.	14.5	2
156	DNA-PKcs at 7Ã…: Insights for DNA Repair. Structure, 2008, 16, 334-336.	3.3	1
157	Constitutively active Artemis nuclease recognizes structures containing single-stranded DNA configurations. DNA Repair, 2019, 83, 102676.	2.8	1
158	Temporally uncoupled signal and coding joint formation in human V(D)J recombination. Molecular Immunology, 2020, 128, 227-234.	2.2	1
159	Preclinical Evaluation of a Novel Dual Targeting PI3KÎ´/BRD4 Inhibitor, SF2535, in B-Cell Acute Lymphoblastic Leukemia. Frontiers in Oncology, 2021, 11, 766888.	2.8	1
160	Double-Strand Break Recognition and its Repair by Non-Homologous End-Joining. , 2010, , 2165-2170.		0
161	Detection and Characterization of Râ€loops at the Murine Immunoglobulin S Î± Region. FASEB Journal, 2013, 27, lb203.	0.5	0