

# Michael R Lieber

## List of Publications by Year in descending order

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14939  
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#	ARTICLE	IF	CITATIONS
1	The Mechanism of Double-Strand DNA Break Repair by the Nonhomologous DNA End-Joining Pathway. <i>Annual Review of Biochemistry</i> , 2010, 79, 181-211.	5.0	2,299
2	Non-homologous DNA end joining and alternative pathways to double-strand break repair. <i>Nature Reviews Molecular Cell Biology</i> , 2017, 18, 495-506.	16.1	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. <i>Cell</i> , 2002, 108, 781-794.	13.5	969
4	Mechanism and regulation of human non-homologous DNA end-joining. <i>Nature Reviews Molecular Cell Biology</i> , 2003, 4, 712-720.	16.1	864
5	R-loops at immunoglobulin class switch regions in the chromosomes of stimulated B cells. <i>Nature Immunology</i> , 2003, 4, 442-451.	7.0	644
6	Activity of DNA ligase IV stimulated by complex formation with XRCC4 protein in mammalian cells. <i>Nature</i> , 1997, 388, 492-495.	13.7	586
7	The Mechanism of Human Nonhomologous DNA End Joining. <i>Journal of Biological Chemistry</i> , 2008, 283, 1-5.	1.6	566
8	The defect in murine severe combined immune deficiency: Joining of signal sequences but not coding segments in V(D)J recombination. <i>Cell</i> , 1988, 55, 7-16.	13.5	445
9	The FEN-1 family of structure-specific nucleases in eukaryotic dna replication, recombination and repair. <i>BioEssays</i> , 1997, 19, 233-240.	1.2	434
10	Yeast DNA ligase IV mediates non-homologous DNA end joining. <i>Nature</i> , 1997, 388, 495-498.	13.7	381
11	Nonhomologous DNA end-joining for repair of DNA double-strand breaks. <i>Journal of Biological Chemistry</i> , 2018, 293, 10512-10523.	1.6	358
12	Extrachromosomal DNA substrates in pre-B cells undergo inversion or deletion at immunoglobulin V-(D)-J joining signals. <i>Cell</i> , 1987, 49, 775-783.	13.5	353
13	A Biochemically Defined System for Mammalian Nonhomologous DNA End Joining. <i>Molecular Cell</i> , 2004, 16, 701-713.	4.5	319
14	Bidirectional Gene Organization. <i>Cell</i> , 2002, 109, 807-809.	13.5	316
15	DNA Ligase IV Is Essential for V(D)J Recombination and DNA Double-Strand Break Repair in Human Precursor Lymphocytes. <i>Molecular Cell</i> , 1998, 2, 477-484.	4.5	305
16	Lagging Strand DNA Synthesis at the Eukaryotic Replication Fork Involves Binding and Stimulation of FEN-1 by Proliferating Cell Nuclear Antigen. <i>Journal of Biological Chemistry</i> , 1995, 270, 22109-22112.	1.6	253
17	A non-B-DNA structure at the Bcl-2 major breakpoint region is cleaved by the RAG complex. <i>Nature</i> , 2004, 428, 88-93.	13.7	224
18	FACT-Mediated Exchange of Histone Variant H2AX Regulated by Phosphorylation of H2AX and ADP-Ribosylation of Spt16. <i>Molecular Cell</i> , 2008, 30, 86-97.	4.5	219

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19	The molecular basis and disease relevance of non-homologous DNA end joining. <i>Nature Reviews Molecular Cell Biology</i> , 2020, 21, 765-781.	16.1	217
20	Human Chromosomal Translocations at CpG Sites and a Theoretical Basis for Their Lineage and Stage Specificity. <i>Cell</i> , 2008, 135, 1130-1142.	13.5	207
21	RNA: DNA complex formation upon transcription of immunoglobulin switch regions: implications for the mechanism and regulation of class switch recombination. <i>Nucleic Acids Research</i> , 1995, 23, 5006-5011.	6.5	196
22	The mechanism of vertebrate nonhomologous DNA end joining and its role in V(D)J recombination. <i>DNA Repair</i> , 2004, 3, 817-826.	1.3	195
23	Efficient Processing of DNA Ends during Yeast Nonhomologous End Joining. <i>Journal of Biological Chemistry</i> , 1999, 274, 23599-23609.	1.6	187
24	Severe combined immunodeficiency and microcephaly in siblings with hypomorphic mutations in DNA ligase IV. <i>European Journal of Immunology</i> , 2006, 36, 224-235.	1.6	182
25	DNA Substrate Length and Surrounding Sequence Affect the Activation-induced Deaminase Activity at Cytidine. <i>Journal of Biological Chemistry</i> , 2004, 279, 6496-6500.	1.6	178
26	Oxygen Metabolism Causes Chromosome Breaks and Is Associated with the Neuronal Apoptosis Observed in DNA Double-Strand Break Repair Mutants. <i>Current Biology</i> , 2002, 12, 397-402.	1.8	166
27	Mechanisms of clonal evolution in childhood acute lymphoblastic leukemia. <i>Nature Immunology</i> , 2015, 16, 766-774.	7.0	163
28	Site-specific recombination in the immune system <sup>1</sup> . <i>FASEB Journal</i> , 1991, 5, 2934-2944.	0.2	160
29	Roles of nonhomologous DNA end joining, V(D)J recombination, and class switch recombination in chromosomal translocations. <i>DNA Repair</i> , 2006, 5, 1234-1245.	1.3	159
30	The biochemistry and biological significance of nonhomologous DNA end joining: an essential repair process in multicellular eukaryotes. <i>Genes To Cells</i> , 1999, 4, 77-85.	0.5	157
31	Productive and Nonproductive Complexes of Ku and DNA-Dependent Protein Kinase at DNA Termini. <i>Molecular and Cellular Biology</i> , 1998, 18, 5908-5920.	1.1	156
32	The Artemis:DNA-PKcs endonuclease cleaves DNA loops, flaps, and gaps. <i>DNA Repair</i> , 2005, 4, 845-851.	1.3	149
33	Organization and dynamics of the nonhomologous end-joining machinery during DNA double-strand break repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2575-84.	3.3	142
34	Requirement for an Interaction of XRCC4 with DNA Ligase IV for Wild-type V(D)J Recombination and DNA Double-strand Break Repair in Vivo. <i>Journal of Biological Chemistry</i> , 1998, 273, 24708-24714.	1.6	139
35	XRCC4:DNA ligase IV can ligate incompatible DNA ends and can ligate across gaps. <i>EMBO Journal</i> , 2007, 26, 1010-1023.	3.5	135
36	DNA ligase IV binds to XRCC4 via a motif located between rather than within its BRCT domains. <i>Current Biology</i> , 1998, 8, 873-879.	1.8	133

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37	Mechanism of R-Loop Formation at Immunoglobulin Class Switch Sequences. <i>Molecular and Cellular Biology</i> , 2008, 28, 50-60.	1.1	133
38	The nonhomologous DNA end joining pathway is important for chromosome stability in primary fibroblasts. <i>Current Biology</i> , 1999, 9, 1501-1506.	1.8	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. <i>Molecular and Cellular Biology</i> , 2009, 29, 3124-3133.	1.1	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. <i>Molecular and Cellular Biology</i> , 2010, 30, 146-159.	1.1	124
41	Functional and biochemical dissection of the structure-specific nuclease ARTEMIS. <i>EMBO Journal</i> , 2004, 23, 1987-1997.	3.5	122
42	Analysis of the V(D)J Recombination Efficiency at Lymphoid Chromosomal Translocation Breakpoints. <i>Journal of Biological Chemistry</i> , 2001, 276, 29126-29133.	1.6	120
43	The DNA-dependent Protein Kinase Catalytic Subunit Phosphorylation Sites in Human Artemis. <i>Journal of Biological Chemistry</i> , 2005, 280, 33839-33846.	1.6	119
44	Pathological and Physiological Double-Strand Breaks. <i>American Journal of Pathology</i> , 1998, 153, 1323-1332.	1.9	118
45	Mechanisms of human lymphoid chromosomal translocations. <i>Nature Reviews Cancer</i> , 2016, 16, 387-398.	12.8	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. <i>Molecular Cell</i> , 2009, 34, 535-544.	4.5	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. <i>Nucleic Acids Research</i> , 2007, 35, 5755-5762.	6.5	107
48	Non-homologous end joining often uses microhomology: Implications for alternative end joining. <i>DNA Repair</i> , 2014, 17, 74-80.	1.3	107
49	Formation of a G-quadruplex at the BCL2 major breakpoint region of the t(14;18) translocation in follicular lymphoma. <i>Nucleic Acids Research</i> , 2011, 39, 936-948.	6.5	106
50	Nonhomologous DNA End Joining (NHEJ) and Chromosomal Translocations in Humans. <i>Sub-Cellular Biochemistry</i> , 2010, 50, 279-296.	1.0	105
51	Ageing, repetitive genomes and DNA damage. <i>Nature Reviews Molecular Cell Biology</i> , 2004, 5, 69-75.	16.1	104
52	DNA-PKcs Dependence of Artemis Endonucleolytic Activity, Differences between Hairpins and 5' or 3' Overhangs. <i>Journal of Biological Chemistry</i> , 2006, 281, 33900-33909.	1.6	95
53	Repair of Double-Strand DNA Breaks by the Human Nonhomologous DNA End Joining Pathway: The Iterative Processing Model. <i>Cell Cycle</i> , 2005, 4, 1193-1200.	1.3	94
54	Length-dependent Binding of Human XLF to DNA and Stimulation of XRCC4-DNA Ligase IV Activity*. <i>Journal of Biological Chemistry</i> , 2007, 282, 11155-11162.	1.6	91

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55	Generation and Characterization of Endonuclease G Null Mice. <i>Molecular and Cellular Biology</i> , 2005, 25, 294-302.	1.1	90
56	Extent to which homology can constrain coding exon junctional diversity in V(D)J recombination. <i>Nature</i> , 1993, 363, 625-627.	13.7	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. <i>DNA Repair</i> , 2002, 1, 1017-1026.	1.3	88
58	NHEJ and its backup pathways in chromosomal translocations. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 393-395.	3.6	86
59	Evidence for a Triplex DNA Conformation at the bcl-2 Major Breakpoint Region of the t(14;18) Translocation. <i>Journal of Biological Chemistry</i> , 2005, 280, 22749-22760.	1.6	84
60	Different DNA End Configurations Dictate Which NHEJ Components Are Most Important for Joining Efficiency. <i>Journal of Biological Chemistry</i> , 2016, 291, 24377-24389.	1.6	83
61	Sequence Dependence of Chromosomal R-Loops at the Immunoglobulin Heavy-Chain S $\frac{1}{4}$ Class Switch Region. <i>Molecular and Cellular Biology</i> , 2007, 27, 5921-5932.	1.1	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. <i>Cell Research</i> , 2008, 18, 125-133.	5.7	81
63	A noncatalytic function of the ligation complex during nonhomologous end joining. <i>Journal of Cell Biology</i> , 2013, 200, 173-186.	2.3	81
64	DNA Structural Elements Required for FEN-1 Binding. <i>Journal of Biological Chemistry</i> , 1995, 270, 4503-4508.	1.6	78
65	Binding of Inositol Hexakisphosphate (IP6) to Ku but Not to DNA-PKcs. <i>Journal of Biological Chemistry</i> , 2002, 277, 10756-10759.	1.6	78
66	Nucleic acid structures and enzymes in the immunoglobulin class switch recombination mechanism. <i>DNA Repair</i> , 2003, 2, 1163-1174.	1.3	77
67	Mechanisms of chromosomal rearrangement in the human genome. <i>BMC Genomics</i> , 2010, 11, S1.	1.2	75
68	The essential elements for the noncovalent association of two DNA ends during NHEJ synapsis. <i>Nature Communications</i> , 2019, 10, 3588.	5.8	72
69	The RAG-HMG1 Complex Enforces the 12/23 Rule of V(D)J Recombination Specifically at the Double-Hairpin Formation Step. <i>Molecular and Cellular Biology</i> , 1998, 18, 6408-6415.	1.1	69
70	Current insights into the mechanism of mammalian immunoglobulin class switch recombination. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2019, 54, 333-351.	2.3	69
71	DEAE-dextran enhances electroporation of mammalian cells. <i>Nucleic Acids Research</i> , 1992, 20, 6739-6740.	6.5	67
72	Impact of DNA ligase IV on the fidelity of end joining in human cells. <i>Nucleic Acids Research</i> , 2003, 31, 2157-2167.	6.5	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. <i>Molecular and Cellular Biology</i> , 2005, 25, 5904-5919.	1.1	67
74	DNA structures at chromosomal translocation sites. <i>BioEssays</i> , 2006, 28, 480-494.	1.2	63
75	The Nicking Step in V(D)J Recombination Is Independent of Synapsis: Implications for the Immune Repertoire. <i>Molecular and Cellular Biology</i> , 2000, 20, 7914-7921.	1.1	62
76	Downstream boundary of chromosomal R-loops at murine switch regions: Implications for the mechanism of class switch recombination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 5030-5035.	3.3	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. <i>Blood</i> , 2012, 120, 2864-2867.	0.6	60
78	DNA-PKcs regulates a single-stranded DNA endonuclease activity of Artemis. <i>DNA Repair</i> , 2010, 9, 429-437.	1.3	58
79	SCR7 is neither a selective nor a potent inhibitor of human DNA ligase IV. <i>DNA Repair</i> , 2016, 43, 18-23.	1.3	57
80	Fine-Structure Analysis of Activation-Induced Deaminase Accessibility to Class Switch Region R-Loops. <i>Molecular and Cellular Biology</i> , 2005, 25, 1730-1736.	1.1	56
81	Genetic Interactions between BLM and DNA Ligase IV in Human Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 55433-55442.	1.6	55
82	SnapShot: Nonhomologous DNA End Joining (NHEJ). <i>Cell</i> , 2010, 142, 496-496.e1.	13.5	53
83	DNA Ligase IV Guides End-Processing Choice during Nonhomologous End Joining. <i>Cell Reports</i> , 2017, 20, 2810-2819.	2.9	53
84	Prevalent Involvement of Illegitimate V(D)J Recombination in Chromosome 9p21 Deletions in Lymphoid Leukemia. <i>Journal of Biological Chemistry</i> , 2002, 277, 46289-46297.	1.6	50
85	Structure-Specific nuclease activities of Artemis and the Artemis: DNA-PKcs complex. <i>Nucleic Acids Research</i> , 2016, 44, 4991-4997.	6.5	50
86	Evidence That the DNA Endonuclease ARTEMIS also Has Intrinsic 5'→3' Exonuclease Activity. <i>Journal of Biological Chemistry</i> , 2014, 289, 7825-7834.	1.6	48
87	Mechanistic Basis for Coding End Sequence Effects in the Initiation of V(D)J Recombination. <i>Molecular and Cellular Biology</i> , 1999, 19, 8094-8102.	1.1	45
88	Polynucleotide Kinase and Aprataxin-like Forkhead-associated Protein (PALF) Acts as Both a Single-stranded DNA Endonuclease and a Single-Stranded DNA 3'→5' Exonuclease and Can Participate in DNA End Joining in a Biochemical System. <i>Journal of Biological Chemistry</i> , 2011, 286, 36368-36377.	1.6	43
89	Unifying the DNA End-processing Roles of the Artemis Nuclease. <i>Journal of Biological Chemistry</i> , 2015, 290, 24036-24050.	1.6	43
90	Chromosomal Translocations and Non-B DNA Structures in the Human Genome. <i>Cell Cycle</i> , 2004, 3, 760-766.	1.3	41

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91	Conformational Variants of Duplex DNA Correlated with Cytosine-rich Chromosomal Fragile Sites. <i>Journal of Biological Chemistry</i> , 2009, 284, 7157-7164.	1.6	40
92	Mechanistic flexibility as a conserved theme across 3 billion years of nonhomologous DNA end-joining: Table 1.. <i>Genes and Development</i> , 2008, 22, 411-415.	2.7	39
93	A Biochemically Defined System for Coding Joint Formation in V(D)J Recombination. <i>Molecular Cell</i> , 2008, 31, 485-497.	4.5	38
94	Turning anti-ageing genes against cancer. <i>Nature Reviews Molecular Cell Biology</i> , 2008, 9, 903-910.	16.1	36
95	The Cleavage Efficiency of the Human Immunoglobulin Heavy Chain VH Elements by the RAG Complex. <i>Journal of Biological Chemistry</i> , 2002, 277, 5040-5046.	1.6	35
96	Bridging of double-stranded breaks by the nonhomologous end-joining ligation complex is modulated by DNA end chemistry. <i>Nucleic Acids Research</i> , 2017, 45, 1872-1878.	6.5	35
97	Complexities due to single-stranded RNA during antibody detection of genomic rna:dna hybrids. <i>BMC Research Notes</i> , 2015, 8, 127.	0.6	34
98	Analysis of individual immunoglobulin $\lambda$ light chain genes amplified from single cells is inconsistent with variable region gene conversion in germinal-center B cell somatic mutation. <i>European Journal of Immunology</i> , 1994, 24, 1816-1822.	1.6	32
99	Extent to which hairpin opening by the Artemis:DNA-PKcs complex can contribute to junctional diversity in V(D)J recombination. <i>Nucleic Acids Research</i> , 2007, 35, 6917-6923.	6.5	32
100	BCL6 breaks occur at different AID sequence motifs in Ig $\alpha$ -BCL6 and non-Ig $\alpha$ -BCL6 rearrangements. <i>Blood</i> , 2013, 121, 4551-4554.	0.6	32
101	Dissecting the Roles of Divergent and Convergent Transcription in Chromosome Instability. <i>Cell Reports</i> , 2016, 14, 1025-1031.	2.9	32
102	Large chromosome deletions, duplications, and gene conversion events accumulate with age in normal human colon crypts. <i>Aging Cell</i> , 2013, 12, 269-279.	3.0	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. <i>Cell Reports</i> , 2014, 8, 557-569.	2.9	30
104	Effects of DNA end configuration on XRCC4-DNA ligase IV and its stimulation of Artemis activity. <i>Journal of Biological Chemistry</i> , 2017, 292, 13914-13924.	1.6	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. <i>Molecular and Cellular Biology</i> , 2005, 25, 6475-6484.	1.1	28
106	Detection and Structural Analysis of R $\infty$ Loops. <i>Methods in Enzymology</i> , 2006, 409, 316-329.	0.4	26
107	Unexpected complexity at breakpoint junctions in phenotypically normal individuals and mechanisms involved in generating balanced translocations t(1;22)(p36;q13). <i>Genome Research</i> , 2008, 18, 1733-1742.	2.4	26
108	Cytosines, but Not Purines, Determine Recombination Activating Gene (RAG)-induced Breaks on Heteroduplex DNA Structures. <i>Journal of Biological Chemistry</i> , 2010, 285, 7587-7597.	1.6	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. <i>Molecular and Cellular Biology</i> , 2013, 33, 947-957.	1.1	26
110	The role of G-density in switch region repeats for immunoglobulin class switch recombination. <i>Nucleic Acids Research</i> , 2014, 42, 13186-13193.	6.5	25
111	Stability and Strand Asymmetry in the Non-B DNA Structure at the <i>bcl-2</i> Major Breakpoint Region. <i>Journal of Biological Chemistry</i> , 2004, 279, 46213-46225.	1.6	24
112	DNA structure and human diseases. <i>Frontiers in Bioscience - Landmark</i> , 2007, 12, 4402.	3.0	23
113	V(D)J recombination activity in human hematopoietic cells: correlation with developmental stage and genome stability. <i>European Journal of Immunology</i> , 1998, 28, 351-358.	1.6	22
114	Convergent BCL6 and lncRNA promoters demarcate the major breakpoint region for BCL6 translocations. <i>Blood</i> , 2015, 126, 1730-1731.	0.6	22
115	Analysis of Non-B DNA Structure at Chromosomal Sites in the Mammalian Genome. <i>Methods in Enzymology</i> , 2006, 409, 301-316.	0.4	21
116	The structure-specific nicking of small heteroduplexes by the RAG complex: Implications for lymphoid chromosomal translocations. <i>DNA Repair</i> , 2007, 6, 751-759.	1.3	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. <i>Blood</i> , 2010, 115, 3640-3641.	0.6	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. <i>Blood</i> , 2010, 116, 1993-1994.	0.6	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. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1014-1016.	2.8	19
120	A Meta-analysis of Multiple Myeloma Risk Regions in African and European Ancestry Populations Identifies Putatively Functional Loci. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2016, 25, 1609-1618.	1.1	18
121	AID and Reactive Oxygen Species Can Induce DNA Breaks within Human Chromosomal Translocation Fragile Zones. <i>Molecular Cell</i> , 2017, 68, 901-912.e3.	4.5	17
122	Structural analysis of the catalytic domain of Artemis endonuclease/SNM1C reveals distinct structural features. <i>Journal of Biological Chemistry</i> , 2020, 295, 12368-12377.	1.6	17
123	The Polymerases for V(D)J Recombination. <i>Immunity</i> , 2006, 25, 7-9.	6.6	16
124	Hybrid joint formation in human V(D)J recombination requires nonhomologous DNA end joining. <i>DNA Repair</i> , 2006, 5, 278-285.	1.3	15
125	Is there any genetic instability in human cancer?. <i>DNA Repair</i> , 2010, 9, 858.	1.3	15
126	DNA-PKcs chemical inhibition versus genetic mutation: Impact on the junctional repair steps of V(D)J recombination. <i>Molecular Immunology</i> , 2020, 120, 93-100.	1.0	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.	3.3	14
128	Polymerase $\eta$ 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.	6.5	14
129	Detection and characterization of R-loops at the murine immunoglobulin $\delta$ region. Molecular Immunology, 2013, 54, 208-216.	1.0	13
130	Histone methylation and V(D)J recombination. International Journal of Hematology, 2014, 100, 230-237.	0.7	13
131	Antibody diversity: A link between switching and hypermutation. Current Biology, 2000, 10, R798-R800.	1.8	12
132	Concept of DNA Lesion Longevity and Chromosomal Translocations. Trends in Biochemical Sciences, 2018, 43, 490-498.	3.7	12
133	Mechanistic Aspects of Lymphoid Chromosomal Translocations. Journal of the National Cancer Institute Monographs, 2008, 2008, 8-11.	0.9	11
134	Structural analysis of the basal state of the Artemis:DNA-PKcs complex. Nucleic Acids Research, 2022, 50, 7697-7720.	6.5	11
135	In Vitro Nonhomologous DNA End Joining System. Methods in Enzymology, 2006, 408, 502-510.	0.4	10
136	RNA Polymerase Collision versus DNA Structural Distortion: Twists and Turns Can Cause Break Failure. Molecular Cell, 2016, 62, 327-334.	4.5	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.	1.1	8
138	Modeling of the RAG Reaction Mechanism. Cell Reports, 2014, 7, 307-315.	2.9	8
139	Human Lymphoid Translocation Fragile Zones Are Hypomethylated and Have Accessible Chromatin. Molecular and Cellular Biology, 2015, 35, 1209-1222.	1.1	8
140	Kinetic analysis of the nicking and hairpin formation steps in V(D)J recombination. DNA Repair, 2004, 3, 67-75.	1.3	7
141	Structural evidence for an in trans base selection mechanism involving Loop1 in polymerase $\eta$ at an NHEJ double-strand break junction. Journal of Biological Chemistry, 2019, 294, 10579-10595.	1.6	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.	1.3	7
143	DNA Repair After Exposure to Ionizing Radiation Is Not Error-Free. Journal of Nuclear Medicine, 2018, 59, 348-348.	2.8	6
144	Structural step forward for NHEJ. Cell Research, 2017, 27, 1304-1306.	5.7	5

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145	Mechanistic basis for chromosomal translocations at the E2A gene and its broader relevance to human B cell malignancies. <i>Cell Reports</i> , 2021, 36, 109387.	2.9	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. <i>Molecular Immunology</i> , 2015, 66, 284-289.	1.0	4
148	The mechanisms of human lymphoid chromosomal translocations and their medical relevance. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2022, 57, 227-243.	2.3	4
149	The repetitive portion of the <i>Xenopus</i> IgH Mu switch region mediates orientation-dependent class switch recombination. <i>Molecular Immunology</i> , 2015, 67, 524-531.	1.0	3
150	Nonhomologous DNA end joining of nucleosomal substrates in a purified system. <i>DNA Repair</i> , 2021, 106, 103193.	1.3	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. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1780-1781.	2.8	2
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161	Detection and Characterization of R-loops at the Murine Immunoglobulin S $\pm$ Region. <i>FASEB Journal</i> , 2013, 27, 1b203.	0.2	0