Joann M Sekiguchi

List of Publications by Year
in descending order

62 papers	6,718 citations	147801 31 h-index	144013 57 g-index
63 all docs	63 docs citations	63 times ranked	5821 citing authors

#	Article	IF	Citations
1	A Critical Role for DNA End-Joining Proteins in Both Lymphogenesis and Neurogenesis. Cell, 1998, 95, 891-902.	28.9	622
2	Interplay of p53 and DNA-repair protein XRCC4 in tumorigenesis, genomic stability and development. Nature, 2000, 404, 897-900.	27.8	541
3	Late embryonic lethality and impaired V (D)J recombination in mice lacking DNA ligase IV. Nature, 1998, 396, 173-177.	27.8	520
4	Increased ionizing radiation sensitivity and genomic instability in the absence of histone H2AX. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8173-8178.	7.1	492
5	DNA Ligase IV Deficiency in Mice Leads to Defective Neurogenesis and Embryonic Lethality via the p53 Pathway. Molecular Cell, 2000, 5, 993-1002.	9.7	457
6	Growth Retardation and Leaky SCID Phenotype of Ku70-Deficient Mice. Immunity, 1997, 7, 653-665.	14.3	414
7	Exome Capture Reveals ZNF423 and CEP164 Mutations, Linking Renal Ciliopathies to DNA Damage Response Signaling. Cell, 2012, 150, 533-548.	28.9	347
8	The nonhomologous end-joining pathway of DNA repair is required for genomic stability and the suppression of translocations. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 6630-6633.	7.1	322
9	Mre11 Nuclease Activity Has Essential Roles in DNA Repair and Genomic Stability Distinct from ATM Activation. Cell, 2008, 135, 85-96.	28.9	291
10	Leaky Scid Phenotype Associated with Defective V(D)J Coding End Processing in Artemis-Deficient Mice. Molecular Cell, 2002, 10, 1379-1390.	9.7	247
11	Defective embryonic neurogenesis in Ku-deficient but not DNA-dependent protein kinase catalytic subunit-deficient mice. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 2668-2673.	7.1	185
12	Defective DNA Repair and Increased Genomic Instability in Artemis-deficient Murine Cells. Journal of Experimental Medicine, 2003, 197, 553-565.	8.5	178
13	Multiple functions of MRN in end-joining pathways during isotype class switching. Nature Structural and Molecular Biology, 2009, 16, 808-813.	8.2	164
14	Endonuclease-independent LINE-1 retrotransposition at mammalian telomeres. Nature, 2007, 446, 208-212.	27.8	160
15	RAG2:GFP Knockin Mice Reveal Novel Aspects of RAG2 Expression in Primary and Peripheral Lymphoid Tissues. Immunity, 1999, 11, 201-212.	14.3	157
16	Site-Specific Ribonuclease Activity of Eukaryotic DNA Topoisomerase I. Molecular Cell, 1997, 1, 89-97.	9.7	147
17	Genetic interactions between ATM and the nonhomologous end-joining factors in genomic stability and development. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 3243-3248.	7.1	145
18	Structural and Functional Interaction between the Human DNA Repair Proteins DNA Ligase IV and XRCC4. Molecular and Cellular Biology, 2009, 29, 3163-3172.	2.3	124

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19	Complementary functions of ATM and H2AX in development and suppression of genomic instability. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9302-9306.	7.1	105
20	Artemis and p53 cooperate to suppress oncogenic N-myc amplification in progenitor B cells. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 2410-2415.	7.1	93
21	Expansion of immunoglobulin-secreting cells and defects in B cell tolerance in Rag-dependent immunodeficiency. Journal of Experimental Medicine, 2010, 207, 1541-1554.	8.5	90
22	Resolution of Holliday junctions by eukaryotic DNA topoisomerase I.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 785-789.	7.1	70
23	Impaired V(D)J Recombination and Lymphocyte Development in Core RAG1-expressing Mice. Journal of Experimental Medicine, 2003, 198, 1439-1450.	8.5	70
24	Increased Accumulation of Hybrid V(D)J Joins in Cells Expressing Truncated versus Full-Length RAGs. Molecular Cell, 2001, 8, 1383-1390.	9.7	68
25	DNA Double-Strand Break Repair: A Relentless Hunt Uncovers New Prey. Cell, 2006, 124, 260-262.	28.9	60
26	Mutational Analysis of 39 Residues of Vaccinia DNA Topoisomerase Identifies Lys-220, Arg-223, and Asn-228 as Important for Covalent Catalysis. Journal of Biological Chemistry, 1997, 272, 8263-8269.	3.4	50
27	Proteolytic Footprinting of Vaccinia Topoisomerase Bound to DNA. Journal of Biological Chemistry, 1995, 270, 11636-11645.	3.4	44
28	Artemis-independent functions of DNA-dependent protein kinase in Ig heavy chain class switch recombination and development. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2471-2475.	7.1	44
29	Leaky severe combined immunodeficiency and aberrant DNA rearrangements due to a hypomorphic RAG1 mutation. Blood, 2009, 113, 2965-2975.	1.4	42
30	Requirements for noncovalent binding of vaccinia topoisomerase I to duplex DNA. Nucleic Acids Research, 1994, 22, 5360-5365.	14.5	37
31	Domain structure of vaccinia DNA ligase. Nucleic Acids Research, 1997, 25, 727-734.	14.5	33
32	Impact of a hypomorphic Artemis disease allele on lymphocyte development, DNA end processing, and genome stability. Journal of Experimental Medicine, 2009, 206, 893-908.	8.5	32
33	Intramolecular synapsis of duplex DNA by vaccinia topoisomerase. EMBO Journal, 1997, 16, 6584-6589.	7.8	30
34	Mechanism of Inhibition of Vaccinia DNA Topoisomerase by Novobiocin and Coumermycin. Journal of Biological Chemistry, 1996, 271, 2313-2322.	3.4	29
35	Ligation of RNA-Containing Duplexes by Vaccinia DNA Ligase. Biochemistry, 1997, 36, 9073-9079.	2.5	29
36	A hypomorphic Artemis human disease allele causes aberrant chromosomal rearrangements and tumorigenesis. Human Molecular Genetics, 2011, 20, 806-819.	2.9	29

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37	Kinetic Analysis of DNA and RNA Strand Transfer Reactions Catalyzed by Vaccinia Topoisomerase. Journal of Biological Chemistry, 1997, 272, 15721-15728.	3.4	23
38	Novobiocin Inhibits Vaccinia Virus Replication by Blocking Virus Assembly. Virology, 1997, 235, 129-137.	2.4	23
39	Covalent DNA Binding by Vaccinia Topoisomerase Results in Unpairing of the Thymine Base 5â€² of the Scissile Bond. Journal of Biological Chemistry, 1996, 271, 19436-19442.	3.4	22
40	Snm1B/Apollo functions in the Fanconi anemia pathway in response to DNA interstrand crosslinks. Human Molecular Genetics, 2011, 20, 2549-2559.	2.9	22
41	The SNM1B/APOLLO DNA nuclease functions in resolution of replication stress and maintenance of common fragile site stability. Human Molecular Genetics, 2013, 22, 4901-4913.	2.9	22
42	MRE11 Promotes Tumorigenesis by Facilitating Resistance to Oncogene-Induced Replication Stress. Cancer Research, 2017, 77, 5327-5338.	0.9	22
43	Mutational analysis of vaccinia virus topoisomerase identifies residues involved in DNA binding. Nucleic Acids Research, 1997, 25, 3649-3656.	14.5	18
44	A polyglutamine expansion disease protein sequesters PTIP to attenuate DNA repair and increase genomic instability. Human Molecular Genetics, 2012, 21, 4225-4236.	2.9	18
45	Changes in DNA topology can modulatein vitro transcription of certain RNA polymerase III genes. Molecular and Cellular Biochemistry, 1989, 85, 123-133.	3.1	16
46	Studies on the ATP requirements of in vitro chromatin assembly. Biochemistry and Cell Biology, 1989, 67, 443-454.	2.0	14
47	DNA superhelicity enhances the assembly of transcriptionally active chromatin in vitro. Molecular Genetics and Genomics, 1989, 220, 73-80.	2.4	13
48	Genetic recombination of nucleosomal templates is mediated by transcription. Molecular Genetics and Genomics, 1994, 244, 410-419.	2.4	8
49	Reaction parameters of TFIIIA-induced supercoiling catalyzed by aXenopus laeviscell-free extract. Nucleic Acids Research, 1990, 18, 1021-1029.	14.5	7
50	Studies on DNA Topoisomerase activity during in vitro chromatin assembly. Molecular and Cellular Biochemistry, 1988, 83, 195-205.	3.1	6
51	GATA3 Abundance Is a Critical Determinant of T Cell Receptor Î² Allelic Exclusion. Molecular and Cellular Biology, 2017, 37, .	2.3	4
52	In vitrochromatin assembly promoted by theXenopus laevisS-150 cell-free extract is enhanced by treatment with RNase A. Nucleic Acids Research, 1992, 20, 889-895.	14.5	3
53	An Analysis of Transcription Factor TFIIIA-Mediated DNA Supercoiling. DNA and Cell Biology, 1991, 10, 223-232.	1.9	2
54	V(D)J recombination. Current Biology, 1999, 9, R835.	3.9	2

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55	The Mechanism of V(D)J Recombination. , 2004, , 61-82.		2
56	Transcription factor TFIIIA stimulates DNA supercoiling promoted by a fractionated cell-free extract from Xenopus laevis. FEBS Journal, 1990, 192, 311-320.	0.2	1
57	Cis-acting enhancement of RNA polymerase III gene expression in vitro. Molecular Genetics and Genomics, 1990, 221, 435-442.	2.4	1
58	Elevated inflammatory responses and targeted therapeutic intervention in a preclinical mouse model of ataxia-telangiectasia lung disease. Scientific Reports, 2021, 11, 4268.	3.3	1
59	OR.1. Hypomorphic Rag1 and Lig4 Mutants are a Model for Human Leaky SCID. Clinical Immunology, 2008, 127, S4.	3.2	0
60	F.121. B Cell-mediated Autoimmunity in Hypomorphic rag1 and lig4 Mouse Mutants as Models for Human Leaky SCID. Clinical Immunology, 2009, 131, S126.	3.2	0
61	Abstract 1776: Lymphomas associated with aberrant DNA rearrangements are suppressed by Mre11 mutation.. , 2013, , .		0
62	Abstract 3012: The Snm1B/Apollo DNA nuclease functions in resolution of replication stress and maintenance of genome stability. , 2015, , .		0