# Joann M Sekiguchi

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | 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 |
| 2 | GATA3 Abundance Is a Critical Determinant of T Cell Receptor Î² Allelic Exclusion. Molecular and Cellular Biology, 2017, 37, . | 2.3 | 4 |
| 3 | MRE11 Promotes Tumorigenesis by Facilitating Resistance to Oncogene-Induced Replication Stress. Cancer Research, 2017, 77, 5327-5338. | 0.9 | 22 |
| 4 | Abstract 3012: The Snm1B/Apollo DNA nuclease functions in resolution of replication stress and maintenance of genome stability. , 2015, , . | | 0 |
| 5 | 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 |
| 6 | Abstract 1776: Lymphomas associated with aberrant DNA rearrangements are suppressed by Mre11 mutation.. , 2013, , . | | 0 |
| 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 | 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 |
| 9 | A hypomorphic Artemis human disease allele causes aberrant chromosomal rearrangements and tumorigenesis. Human Molecular Genetics, 2011, 20, 806-819. | 2.9 | 29 |
| 10 | Snm1B/Apollo functions in the Fanconi anemia pathway in response to DNA interstrand crosslinks. Human Molecular Genetics, 2011, 20, 2549-2559. | 2.9 | 22 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | Multiple functions of MRN in end-joining pathways during isotype class switching. Nature Structural and Molecular Biology, 2009, 16, 808-813. | 8.2 | 164 |
| 15 | 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 |
| 16 | Leaky severe combined immunodeficiency and aberrant DNA rearrangements due to a hypomorphic RAG1 mutation. Blood, 2009, 113, 2965-2975. | 1.4 | 42 |
| 17 | OR.1. Hypomorphic Rag1 and Lig4 Mutants are a Model for Human Leaky SCID. Clinical Immunology, 2008, 127, S4. | 3.2 | 0 |
| 18 | Mre11 Nuclease Activity Has Essential Roles in DNA Repair and Genomic Stability Distinct from ATM Activation. Cell, 2008, 135, 85-96. | 28.9 | 291 |

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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 | Endonuclease-independent LINE-1 retrotransposition at mammalian telomeres. Nature, 2007, 446, 208-212. | 27.8 | 160 |
| 21 | DNA Double-Strand Break Repair: A Relentless Hunt Uncovers New Prey. Cell, 2006, 124, 260-262. | 28.9 | 60 |
| 22 | 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 |
| 23 | The Mechanism of V(D)J Recombination. , 2004, , 61-82. | | 2 |
| 24 | 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 |
| 25 | Impaired V(D)J Recombination and Lymphocyte Development in Core RAG1-expressing Mice. Journal of Experimental Medicine, 2003, 198, 1439-1450. | 8.5 | 70 |
| 26 | Defective DNA Repair and Increased Genomic Instability in Artemis-deficient Murine Cells. Journal of Experimental Medicine, 2003, 197, 553-565. | 8.5 | 178 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | Interplay of p53 and DNA-repair protein XRCC4 in tumorigenesis, genomic stability and development. Nature, 2000, 404, 897-900. | 27.8 | 541 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | V(D)J recombination. Current Biology, 1999, 9, R835. | 3.9 | 2 |
| 36 | RAG2:GFP Knockin Mice Reveal Novel Aspects of RAG2 Expression in Primary and Peripheral Lymphoid Tissues. Immunity, 1999, 11, 201-212. | 14.3 | 157 |

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|---|---|---|---|
| 37 | Late embryonic lethality and impaired V (D)J recombination in mice lacking DNA ligase IV. Nature, 1998, 396, 173-177. | 27.8 | 520 |
| 38 | A Critical Role for DNA End-Joining Proteins in Both Lymphogenesis and Neurogenesis. Cell, 1998, 95, 891-902. | 28.9 | 622 |
| 39 | Mutational analysis of vaccinia virus topoisomerase identifies residues involved in DNA binding. Nucleic Acids Research, 1997, 25, 3649-3656. | 14.5 | 18 |
| 40 | Domain structure of vaccinia DNA ligase. Nucleic Acids Research, 1997, 25, 727-734. | 14.5 | 33 |
| 41 | Kinetic Analysis of DNA and RNA Strand Transfer Reactions Catalyzed by Vaccinia Topoisomerase. Journal of Biological Chemistry, 1997, 272, 15721-15728. | 3.4 | 23 |
| 42 | 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 |
| 43 | Ligation of RNA-Containing Duplexes by Vaccinia DNA Ligase. Biochemistry, 1997, 36, 9073-9079. | 2.5 | 29 |
| 44 | Growth Retardation and Leaky SCID Phenotype of Ku70-Deficient Mice. Immunity, 1997, 7, 653-665. | 14.3 | 414 |
| 45 | Site-Specific Ribonuclease Activity of Eukaryotic DNA Topoisomerase I. Molecular Cell, 1997, 1, 89-97. | 9.7 | 147 |
| 46 | Intramolecular synapsis of duplex DNA by vaccinia topoisomerase. EMBO Journal, 1997, 16, 6584-6589. | 7.8 | 30 |
| 47 | Novobiocin Inhibits Vaccinia Virus Replication by Blocking Virus Assembly. Virology, 1997, 235, 129-137. | 2.4 | 23 |
| 48 | 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 |
| 49 | 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 |
| 50 | Mechanism of Inhibition of Vaccinia DNA Topoisomerase by Novobiocin and Coumermycin. Journal of Biological Chemistry, 1996, 271, 2313-2322. | 3.4 | 29 |
| 51 | Proteolytic Footprinting of Vaccinia Topoisomerase Bound to DNA. Journal of Biological Chemistry, 1995, 270, 11636-11645. | 3.4 | 44 |
| 52 | Requirements for noncovalent binding of vaccinia topoisomerase I to duplex DNA. Nucleic Acids Research, 1994, 22, 5360-5365. | 14.5 | 37 |
| 53 | Genetic recombination of nucleosomal templates is mediated by transcription. Molecular Genetics and Genomics, 1994, 244, 410-419. | 2.4 | 8 |
| 54 | 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 |

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|---|---|---|---|
| 55 | An Analysis of Transcription Factor TFIIIA-Mediated DNA Supercoiling. DNA and Cell Biology, 1991, 10, 223-232. | 1.9 | 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 | Reaction parameters of TFIIIA-induced supercoiling catalyzed by aXenopus laeviscell-free extract. Nucleic Acids Research, 1990, 18, 1021-1029. | 14.5 | 7 |
| 59 | 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 |
| 60 | DNA superhelicity enhances the assembly of transcriptionally active chromatin in vitro. Molecular Genetics and Genomics, 1989, 220, 73-80. | 2.4 | 13 |
| 61 | Studies on the ATP requirements of in vitro chromatin assembly. Biochemistry and Cell Biology, 1989, 67, 443-454. | 2.0 | 14 |
| 62 | Studies on DNA Topoisomerase activity during in vitro chromatin assembly. Molecular and Cellular Biochemistry, 1988, 83, 195-205. | 3.1 | 6 |