Joann B Sweasy

List of Publications by Year
in descending order

46 papers	1,370 citations	430754 18 h-index	360920 35 g-index
46 all docs	46 docs citations	46 times ranked	1768 citing authors

#	Article	IF	Citations
1	Base excision repair and cancer. Cancer Letters, 2012, 327, 73-89.	3.2	257
2	DNA polymerase beta participates in DNA End-joining. Nucleic Acids Research, 2018, 46, 242-255.	6.5	181
3	Expression of DNA polymerase Â cancer-associated variants in mouse cells results in cellular transformation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14350-14355.	3.3	110
4	DNA Polymerases and Human Diseases. Radiation Research, 2006, 166, 693-714.	0.7	91
5	MBD4 and TDG: Multifaceted DNA glycosylases with ever expanding biological roles. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2013, 743-744, 12-25.	0.4	85
6	Is Base Excision Repair a Tumor Suppressor Mechanism?. Cell Cycle, 2006, 5, 250-259.	1.3	72
7	The Mutator Form of Polymerase Î² with Amino Acid Substitution at Tyrosine 265 in the Hinge Region Displays an Increase in both Base Substitution and Frame Shift Errorsâ€. Biochemistry, 1998, 37, 2111-2119.	1.2	63
8	Mutation of POLB Causes Lupus in Mice. Cell Reports, 2014, 6, 1-8.	2.9	50
9	Involvement of Phenylalanine 272 of DNA Polymerase Beta in Discriminating between Correct and Incorrect Deoxynucleoside Triphosphatesâ€. Biochemistry, 1999, 38, 4800-4808.	1.2	46
10	Genome and cancer single nucleotide polymorphisms of the human NEIL1 DNA glycosylase: Activity, structure, and the effect of editing. DNA Repair, 2014, 14, 17-26.	1.3	38
11	Y265C DNA polymerase beta knockin mice survive past birth and accumulate base excision repair intermediate substrates. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6632-6637.	3.3	29
12	A new perspective on oxidation of DNA repair proteins and cancer. DNA Repair, 2019, 76, 60-69.	1.3	28
13	Tumor-associated mutations in a conserved structural motif alter physical and biochemical properties of human RAD51 recombinase. Nucleic Acids Research, 2015, 43, 1098-1111.	6.5	27
14	Base Excision Repair Variants in Cancer. Methods in Enzymology, 2017, 591, 119-157.	0.4	26
15	DNA repair and systemic lupus erythematosus. DNA Repair, 2017, 56, 174-182.	1.3	24
16	NTHL1 in genomic integrity, aging and cancer. DNA Repair, 2020, 93, 102920.	1.3	23
17	DNA Polymerase Beta Germline Variant Confers Cellular Response to Cisplatin Therapy. Molecular Cancer Research, 2017, 15, 269-280.	1.5	22
18	Fidelity Mechanisms of DNA Polymerase Î². Progress in Molecular Biology and Translational Science, 2003, 73, 137-169.	1.9	20

#	Article	IF	Citations
19	The S229L Colon Tumor-associated Variant of DNA Polymerase Î² Induces Cellular Transformation as a Result of Decreased Polymerization Efficiency. Journal of Biological Chemistry, 2014, 289, 13708-13716.	1.6	19
20	Probing DNA Base-Dependent Leaving Group Kinetic Effects on the DNA Polymerase Transition State. Biochemistry, 2018, 57, 3925-3933.	1.2	18
21	Cellular roles of DNA polymerase beta. Yale Journal of Biology and Medicine, 2013, 86, 463-9.	0.2	18
22	A Germline Polymorphism of Thymine DNA Glycosylase Induces Genomic Instability and Cellular Transformation. PLoS Genetics, 2014, 10, e1004753.	1.5	16
23	A Change in the Rate-Determining Step of Polymerization by the K289M DNA Polymerase Î² Cancer-Associated Variant. Biochemistry, 2017, 56, 2096-2105.	1.2	16
24	Estrogen Drives Cellular Transformation and Mutagenesis in Cells Expressing the Breast Cancerâ€“Associated R438W DNA Polymerase Lambda Protein. Molecular Cancer Research, 2016, 14, 1068-1077.	1.5	12
25	Defective Nucleotide Release by DNA Polymerase Î² Mutator Variant E288K Is the Basis of Its Low Fidelity. Biochemistry, 2017, 56, 5550-5559.	1.2	11
26	Interaction of DNA polymerase Î² with GRIP1 during meiosis. Chromosoma, 2001, 110, 402-410.	1.0	9
27	Pools and Pols: Mechanism of a mutator phenotype. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5864-5865.	3.3	9
28	Remote Mutations Induce Functional Changes in Active Site Residues of Human DNA Polymerase Î². Biochemistry, 2017, 56, 2363-2371.	1.2	9
29	I260Q DNA polymerase Î² highlights precatalytic conformational rearrangements critical for fidelity. Nucleic Acids Research, 2018, 46, 10740-10756.	6.5	8
30	Differential immunomodulatory effect of PARP inhibition in BRCA1 deficient and competent tumor cells. Biochemical Pharmacology, 2021, 184, 114359.	2.0	8
31	The R280H X-ray cross-complementing 1 germline variant induces genomic instability and cellular transformation. DNA Repair, 2015, 31, 73-79.	1.3	7
32	DNA Polymerase Î² Cancer-Associated Variant I260M Exhibits Nonspecific Selectivity toward the Î²â€“Î³ Bridging Group of the Incoming dNTP. Biochemistry, 2017, 56, 5449-5456.	1.2	7
33	Using single-molecule FRET to probe the nucleotide-dependent conformational landscape of polymerase Î²-DNA complexes. Journal of Biological Chemistry, 2020, 295, 9012-9020.	1.6	4
34	DNA polymerase Îº: Friend or foe?. Science Signaling, 2020, 13, .	1.6	3
35	DNA glycosylase deficiency leads to decreased severity of lupus in the Polb-Y265C mouse model. DNA Repair, 2021, 105, 103152.	1.3	3
36	Synthesis of ortho-formylphenylphosphonic acids as covalent probes of active site lysines. Phosphorus, Sulfur and Silicon and the Related Elements, 2019, 194, 313-314.	0.8	1

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37	Evelyn M. Witkin Awarded the National Medal of Science. Radiation Research, 2004, 161, 493-494.	0.7	0
38	Evelyn Witkin and the coordinated response to DNA damage. DNA Repair, 2015, 35, 154-155.	1.3	0
39	203â€…A mismatch repair genetic variant is linked to the development of lupus. , 2019, , .		0
40	Timing Is Everything: Misincorporation of 8oxodG during Mitosis Is Lethal. Cancer Research, 2020, 80, 3459-3460.	0.4	0
41	Revealing an Internal Stabilization Deficiency in the DNA Polymerase Î² K289M Cancer Variant through the Combined Use of Chemical Biology and X-ray Crystallography. Biochemistry, 2020, 59, 955-963.	1.2	0
42	Expression profiling of cellular transformation induced by tumorâ€associated DNA polymerase beta variant I260M. FASEB Journal, 2010, 24, 492.6.	0.2	0
43	Mouse Embryonic Fibroblasts Isolated From Nthl1 D227Y Knockin Mice Exhibit Defective DNA Repair and Increased Genome Instability. DNA Repair, 2022, 109, 103247.	1.3	0
44	The hematopoietic compartment is sufficient for lupus development resulting from the POLB-Y265C mutation. PLoS ONE, 2022, 17, e0267913.	1.1	0
45	A Collapsed Fingers Subdomain is the Basis for DNA Polymerase Î² I260M Mutator Activity. FASEB Journal, 2022, 36, .	0.2	0
46	A Human <scp>MSH6</scp> Germline Variant Associated With Systemic Lupus Erythematosus Induces Lupusâ€like Disease in Mice. ACR Open Rheumatology, 0, , .	0.9	0