

# Jac A Nickoloff

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

3,679

citations

30

h-index

60

g-index

63

ext. papers

4,141

ext. citations

6.1

avg, IF

5.36

L-index

#	Paper	IF	Citations
62	Metnase and EEPD1: DNA Repair Functions and Potential Targets in Cancer Therapy.. <i>Frontiers in Oncology</i> , <b>2022</b> , 12, 808757	5.3	1
61	Nucleases and Co-Factors in DNA Replication Stress Responses. <i>Dna</i> , <b>2022</b> , 2, 68-85		0
60	Recombinant cell-detecting RaDR-GFP in mice reveals an association between genomic instability and radiation-induced-thymic lymphoma.. <i>American Journal of Cancer Research</i> , <b>2022</b> , 12, 562-573	4.4	
59	Toward Greater Precision in Cancer Radiotherapy. <i>Cancer Research</i> , <b>2021</b> , 81, 3156-3157	10.1	2
58	Exploiting DNA repair pathways for tumor sensitization, mitigation of resistance, and normal tissue protection in radiotherapy. <i>Cancer Drug Resistance (Alhambra, Calif)</i> , <b>2021</b> , 4, 244-263	4.5	4
57	Roles of homologous recombination in response to ionizing radiation-induced DNA damage. <i>International Journal of Radiation Biology</i> , <b>2021</b> , 1-12	2.9	3
56	The Safe Path at the Fork: Ensuring Replication-Associated DNA Double-Strand Breaks are Repaired by Homologous Recombination. <i>Frontiers in Genetics</i> , <b>2021</b> , 12, 748033	4.5	4
55	Clustered DNA Double-Strand Breaks: Biological Effects and Relevance to Cancer Radiotherapy. <i>Genes</i> , <b>2020</b> , 11,	4.2	66
54	Distinct roles of structure-specific endonucleases EEPD1 and Metnase in replication stress responses. <i>NAR Cancer</i> , <b>2020</b> , 2, zcaa008	5.2	8
53	TAS-116, a Novel Hsp90 Inhibitor, Selectively Enhances Radiosensitivity of Human Cancer Cells to X-rays and Carbon Ion Radiation. <i>Molecular Cancer Therapeutics</i> , <b>2017</b> , 16, 16-24	6.1	19
52	Metnase Mediates Loading of Exonuclease 1 onto Single Strand Overhang DNA for End Resection at Stalled Replication Forks. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 1414-1425	5.4	13
51	Drugging the Cancers Addicted to DNA Repair. <i>Journal of the National Cancer Institute</i> , <b>2017</b> , 109,	9.7	87
50	Endonuclease EEPD1 Is a Gatekeeper for Repair of Stressed Replication Forks. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 2795-2804	5.4	24
49	The endonuclease EEPD1 mediates synthetic lethality in RAD52-depleted BRCA1 mutant breast cancer cells. <i>Breast Cancer Research</i> , <b>2017</b> , 19, 122	8.3	22
48	Paths from DNA damage and signaling to genome rearrangements via homologous recombination. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , <b>2017</b> , 806, 64-74	3.3	18
47	Low- and High-LET Ionizing Radiation Induces Delayed Homologous Recombination that Persists for Two Weeks before Resolving. <i>Radiation Research</i> , <b>2017</b> , 188, 82-93	3.1	5
46	Translational research in radiation-induced DNA damage signaling and repair. <i>Translational Cancer Research</i> , <b>2017</b> , 6, S875-S891	0.3	29

45	The homologous recombination component EEPD1 is required for genome stability in response to developmental stress of vertebrate embryogenesis. <i>Cell Cycle</i> , <b>2016</b> , 15, 957-62	4.7	13
44	The purine scaffold Hsp90 inhibitor PU-H71 sensitizes cancer cells to heavy ion radiation by inhibiting DNA repair by homologous recombination and non-homologous end joining. <i>Radiotherapy and Oncology</i> , <b>2016</b> , 121, 162-168	5.3	16
43	DNA Damage Response Proteins and Oxygen Modulate Prostaglandin E2 Growth Factor Release in Response to Low and High LET Ionizing Radiation. <i>Frontiers in Oncology</i> , <b>2015</b> , 5, 260	5.3	13
42	EEPD1 Rescues Stressed Replication Forks and Maintains Genome Stability by Promoting End Resection and Homologous Recombination Repair. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005675	6	37
41	Photon, light ion, and heavy ion cancer radiotherapy: paths from physics and biology to clinical practice. <i>Annals of Translational Medicine</i> , <b>2015</b> , 3, 336	3.2	6
40	DNA Repair Dysregulation in Cancer: From Molecular Mechanisms to Synthetic Lethal Opportunities <b>2015</b> , 7-28		1
39	The DNA repair component Metnase regulates Chk1 stability. <i>Cell Division</i> , <b>2014</b> , 9, 1	2.8	6
38	The DDN catalytic motif is required for Metnase functions in non-homologous end joining (NHEJ) repair and replication restart. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 10930-10938	5.4	24
37	DNA-PK phosphorylation of RPA32 Ser4/Ser8 regulates replication stress checkpoint activation, fork restart, homologous recombination and mitotic catastrophe. <i>DNA Repair</i> , <b>2014</b> , 21, 131-9	4.3	73
36	FOXF1 mediates mesenchymal stem cell fusion-induced reprogramming of lung cancer cells. <i>Oncotarget</i> , <b>2014</b> , 5, 9514-29	3.3	57
35	PARP1 is required for chromosomal translocations. <i>Blood</i> , <b>2013</b> , 121, 4359-65	2.2	56
34	Assaying DNA double-strand break induction and repair as fast as a speeding comet. <i>Cell Cycle</i> , <b>2013</b> , 12, 1335-6	4.7	
33	Improving cancer therapy by combining cell biological, physical, and molecular targeting strategies. <i>Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association, Beijing Institute for Cancer Research</i> , <b>2013</b> , 25, 7-9	3.8	3
32	Radiation-Induced Delayed Genome Instability and Hypermutation in Mammalian Cells <b>2013</b> , 183-198		
31	Targeting the transposase domain of the DNA repair component Metnase to enhance chemotherapy. <i>Cancer Research</i> , <b>2012</b> , 72, 6200-8	10.1	27
30	Distinct roles for DNA-PK, ATM and ATR in RPA phosphorylation and checkpoint activation in response to replication stress. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, 10780-94	20.1	159
29	Synthetic lethality: exploiting the addiction of cancer to DNA repair. <i>Blood</i> , <b>2011</b> , 117, 6074-82	2.2	144
28	Heavy charged particle radiobiology: using enhanced biological effectiveness and improved beam focusing to advance cancer therapy. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , <b>2011</b> , 711, 150-7	3.3	66

27	More forks on the road to replication stress recovery. <i>Journal of Molecular Cell Biology</i> , <b>2011</b> , 3, 4-12	6.3	118
26	Methylation of histone H3 lysine 36 enhances DNA repair by nonhomologous end-joining. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 540-5	11.5	201
25	Metnase promotes restart and repair of stalled and collapsed replication forks. <i>Nucleic Acids Research</i> , <b>2010</b> , 38, 5681-91	20.1	49
24	Metnase/SETMAR: a domesticated primate transposase that enhances DNA repair, replication, and decatenation. <i>Genetica</i> , <b>2010</b> , 138, 559-66	1.5	49
23	The transposase domain protein Metnase/SETMAR suppresses chromosomal translocations. <i>Cancer Genetics and Cytogenetics</i> , <b>2010</b> , 200, 184-90		24
22	DNA-PKcs and ATM co-regulate DNA double-strand break repair. <i>DNA Repair</i> , <b>2009</b> , 8, 920-9	4.3	100
21	Metnase mediates chromosome decatenation in acute leukemia cells. <i>Blood</i> , <b>2009</b> , 114, 1852-8	2.2	48
20	Metnase mediates resistance to topoisomerase II inhibitors in breast cancer cells. <i>PLoS ONE</i> , <b>2009</b> , 4, e5323	3.7	37
19	Regulation of DNA double-strand break repair pathway choice. <i>Cell Research</i> , <b>2008</b> , 18, 134-47	24.7	952
18	The human set and transposase domain protein Metnase interacts with DNA Ligase IV and enhances the efficiency and accuracy of non-homologous end-joining. <i>DNA Repair</i> , <b>2008</b> , 7, 1927-37	4.3	43
17	Distinct RAD51 associations with RAD52 and BCCIP in response to DNA damage and replication stress. <i>Cancer Research</i> , <b>2008</b> , 68, 2699-707	10.1	49
16	The SET and transposase domain protein Metnase enhances chromosome decatenation: regulation by automethylation. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, 5822-31	20.1	47
15	Targeted and nontargeted effects of low-dose ionizing radiation on delayed genomic instability in human cells. <i>Cancer Research</i> , <b>2007</b> , 67, 1099-104	10.1	82
14	Sgs1 regulates gene conversion tract lengths and crossovers independently of its helicase activity. <i>Molecular and Cellular Biology</i> , <b>2006</b> , 26, 4086-94	4.8	65
13	UV radiation induces delayed hyperrecombination associated with hypermutation in human cells. <i>Molecular and Cellular Biology</i> , <b>2006</b> , 26, 6047-55	4.8	22
12	The SET domain protein Metnase mediates foreign DNA integration and links integration to nonhomologous end-joining repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 18075-80	11.5	127
11	Analysis of recombinational repair of DNA double-strand breaks in mammalian cells with I-SceI nuclease. <i>Methods in Molecular Biology</i> , <b>2004</b> , 262, 35-52	1.4	14
10	Ionizing radiation induces delayed hyperrecombination in Mammalian cells. <i>Molecular and Cellular Biology</i> , <b>2004</b> , 24, 5060-8	4.8	38

9	DNA-dependent protein kinase suppresses double-strand break-induced and spontaneous homologous recombination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 3758-63	11.5	140
8	XRCC3 controls the fidelity of homologous recombination: roles for XRCC3 in late stages of recombination. <i>Molecular Cell</i> , <b>2002</b> , 10, 387-95	17.6	154
7	Homologous recombinational repair of double-strand breaks in yeast is enhanced by MAT heterozygosity through yKU-dependent and -independent mechanisms. <i>Genetics</i> , <b>2001</b> , 157, 579-89	4	64
6	Efficient incorporation of large (>2 kb) heterologies into heteroduplex DNA: Pms1/Msh2-dependent and -independent large loop mismatch repair in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , <b>2001</b> , 157, 1481-91	4	20
5	XRCC3 is required for efficient repair of chromosome breaks by homologous recombination. <i>Mutation Research DNA Repair</i> , <b>2000</b> , 459, 89-97		127
4	PCR alone is insufficient for identifying structural modifications to yeast chromosomes. <i>BioTechniques</i> , <b>1999</b> , 26, 238-40	2.5	1
3	Multiple heterologies increase mitotic double-strand break-induced allelic gene conversion tract lengths in yeast. <i>Genetics</i> , <b>1999</b> , 153, 665-79	4	57
2	A comparison of calcium phosphate coprecipitation and electroporation. Implications for studies on the genetic effects of DNA damage. <i>Molecular Biotechnology</i> , <b>1998</b> , 10, 93-101	3	8
1	Efficient repair of all types of single-base mismatches in recombination intermediates in Chinese hamster ovary cells. Competition between long-patch and G-T glycosylase-mediated repair of G-T mismatches. <i>Genetics</i> , <b>1998</b> , 149, 1935-43	4	37