

Jac A Nickoloff

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

4,468
citations

147801

31
h-index

149698

56
g-index

63
all docs

63
docs citations

63
times ranked

5785
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of DNA double-strand break repair pathway choice. <i>Cell Research</i> , 2008, 18, 134-147.	12.0	1,138
2	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> , 2011, 108, 540-545.	7.1	253
3	Distinct roles for DNA-PK, ATM and ATR in RPA phosphorylation and checkpoint activation in response to replication stress. <i>Nucleic Acids Research</i> , 2012, 40, 10780-10794.	14.5	204
4	Synthetic lethality: exploiting the addiction of cancer to DNA repair. <i>Blood</i> , 2011, 117, 6074-6082.	1.4	171
5	XRCC3 Controls the Fidelity of Homologous Recombination. <i>Molecular Cell</i> , 2002, 10, 387-395.	9.7	163
6	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> , 2002, 99, 3758-3763.	7.1	156
7	XRCC3 is required for efficient repair of chromosome breaks by homologous recombination. <i>Mutation Research DNA Repair</i> , 2000, 459, 89-97.	3.7	149
8	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> , 2005, 102, 18075-18080.	7.1	145
9	More forks on the road to replication stress recovery. <i>Journal of Molecular Cell Biology</i> , 2011, 3, 4-12.	3.3	131
10	Clustered DNA Double-Strand Breaks: Biological Effects and Relevance to Cancer Radiotherapy. <i>Genes</i> , 2020, 11, 99.	2.4	118
11	DNA-PKcs and ATM co-regulate DNA double-strand break repair. <i>DNA Repair</i> , 2009, 8, 920-929.	2.8	117
12	Drugging the Cancers Addicted to DNA Repair. <i>Journal of the National Cancer Institute</i> , 2017, 109, .	6.3	114
13	DNA-PK phosphorylation of RPA32 Ser4/Ser8 regulates replication stress checkpoint activation, fork restart, homologous recombination and mitotic catastrophe. <i>DNA Repair</i> , 2014, 21, 131-139.	2.8	103
14	Targeted and Nontargeted Effects of Low-Dose Ionizing Radiation on Delayed Genomic Instability in Human Cells. <i>Cancer Research</i> , 2007, 67, 1099-1104.	0.9	91
15	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> , 2011, 711, 150-157.	1.0	77
16	Homologous Recombinational Repair of Double-Strand Breaks in Yeast Is Enhanced by <i>MAT</i> Heterozygosity Through γ KU-Dependent and -Independent Mechanisms. <i>Genetics</i> , 2001, 157, 579-589.	2.9	77
17	FOXF1 mediates mesenchymal stem cell fusion-induced reprogramming of lung cancer cells. <i>Oncotarget</i> , 2014, 5, 9514-9529.	1.8	69
18	Sgs1 Regulates Gene Conversion Tract Lengths and Crossovers Independently of Its Helicase Activity. <i>Molecular and Cellular Biology</i> , 2006, 26, 4086-4094.	2.3	67

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19	PARP1 is required for chromosomal translocations. <i>Blood</i> , 2013, 121, 4359-4365.	1.4	67
20	Multiple Heterologies Increase Mitotic Double-Strand Break-Induced Allelic Gene Conversion Tract Lengths in Yeast. <i>Genetics</i> , 1999, 153, 665-679.	2.9	65
21	Metnase/SETMAR: a domesticated primate transposase that enhances DNA repair, replication, and decatenation. <i>Genetica</i> , 2010, 138, 559-566.	1.1	57
22	Distinct RAD51 Associations with RAD52 and BCCIP in Response to DNA Damage and Replication Stress. <i>Cancer Research</i> , 2008, 68, 2699-2707.	0.9	56
23	Metnase mediates chromosome decatenation in acute leukemia cells. <i>Blood</i> , 2009, 114, 1852-1858.	1.4	56
24	The SET and transposase domain protein Metnase enhances chromosome decatenation: regulation by automethylation. <i>Nucleic Acids Research</i> , 2008, 36, 5822-5831.	14.5	54
25	Metnase promotes restart and repair of stalled and collapsed replication forks. <i>Nucleic Acids Research</i> , 2010, 38, 5681-5691.	14.5	54
26	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> , 2008, 7, 1927-1937.	2.8	49
27	EEPD1 Rescues Stressed Replication Forks and Maintains Genome Stability by Promoting End Resection and Homologous Recombination Repair. <i>PLoS Genetics</i> , 2015, 11, e1005675.	3.5	47
28	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> , 1998, 149, 1935-1943.	2.9	46
29	Metnase Mediates Resistance to Topoisomerase II Inhibitors in Breast Cancer Cells. <i>PLoS ONE</i> , 2009, 4, e5323.	2.5	42
30	Ionizing Radiation Induces Delayed Hyperrecombination in Mammalian Cells. <i>Molecular and Cellular Biology</i> , 2004, 24, 5060-5068.	2.3	40
31	Translational research in radiation-induced DNA damage signaling and repair. <i>Translational Cancer Research</i> , 2017, 6, S875-S891.	1.0	40
32	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> , 2014, 289, 10930-10938.	3.4	35
33	The endonuclease EEPD1 mediates synthetic lethality in RAD52-depleted BRCA1 mutant breast cancer cells. <i>Breast Cancer Research</i> , 2017, 19, 122.	5.0	32
34	The transposase domain protein Metnase/SETMAR suppresses chromosomal translocations. <i>Cancer Genetics and Cytogenetics</i> , 2010, 200, 184-190.	1.0	31
35	Targeting the Transposase Domain of the DNA Repair Component Metnase to Enhance Chemotherapy. <i>Cancer Research</i> , 2012, 72, 6200-6208.	0.9	29
36	Endonuclease EEPD1 Is a Gatekeeper for Repair of Stressed Replication Forks. <i>Journal of Biological Chemistry</i> , 2017, 292, 2795-2804.	3.4	29

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37	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> , 2001, 157, 1481-1491.	2.9	25
38	UV Radiation Induces Delayed Hyperrecombination Associated with Hypermutation in Human Cells. <i>Molecular and Cellular Biology</i> , 2006, 26, 6047-6055.	2.3	23
39	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> , 2016, 121, 162-168.	0.6	22
40	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> , 2017, 16, 16-24.	4.1	22
41	The Safe Path at the Fork: Ensuring Replication-Associated DNA Double-Strand Breaks are Repaired by Homologous Recombination. <i>Frontiers in Genetics</i> , 2021, 12, 748033.	2.3	21
42	Paths from DNA damage and signaling to genome rearrangements via homologous recombination. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2017, 806, 64-74.	1.0	20
43	Analysis of Recombinational Repair of DNA Double-Strand Breaks in Mammalian Cells With I-SceI Nuclease. , 2004, 262, 035-052.		19
44	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> , 2015, 5, 260.	2.8	17
45	The homologous recombination component EEPD1 is required for genome stability in response to developmental stress of vertebrate embryogenesis. <i>Cell Cycle</i> , 2016, 15, 957-962.	2.6	16
46	Metnase Mediates Loading of Exonuclease 1 onto Single Strand Overhang DNA for End Resection at Stalled Replication Forks. <i>Journal of Biological Chemistry</i> , 2017, 292, 1414-1425.	3.4	16
47	Exploiting DNA repair pathways for tumor sensitization, mitigation of resistance, and normal tissue protection in radiotherapy. , 2021, 4, 244-263.		14
48	A comparison of calcium phosphate coprecipitation and electroporation. <i>Molecular Biotechnology</i> , 1998, 10, 93-101.	2.4	11
49	Distinct roles of structure-specific endonucleases EEPD1 and Metnase in replication stress responses. <i>NAR Cancer</i> , 2020, 2, zcaa008.	3.1	11
50	Roles of homologous recombination in response to ionizing radiation-induced DNA damage. <i>International Journal of Radiation Biology</i> , 2023, 99, 903-914.	1.8	9
51	Metnase and EEPD1: DNA Repair Functions and Potential Targets in Cancer Therapy. <i>Frontiers in Oncology</i> , 2022, 12, 808757.	2.8	9
52	The DNA repair component Metnase regulates Chk1 stability. <i>Cell Division</i> , 2014, 9, 1.	2.4	8
53	Low- and High-LET Ionizing Radiation Induces Delayed Homologous Recombination that Persists for Two Weeks before Resolving. <i>Radiation Research</i> , 2017, 188, 82.	1.5	8
54	Photon, light ion, and heavy ion cancer radiotherapy: paths from physics and biology to clinical practice. <i>Annals of Translational Medicine</i> , 2015, 3, 336.	1.7	8

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55	Toward Greater Precision in Cancer Radiotherapy. <i>Cancer Research</i> , 2021, 81, 3156-3157.	0.9	6
56	Nucleases and Co-Factors in DNA Replication Stress Responses. <i>Dna</i> , 2022, 2, 68-85.	1.3	4
57	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> , 2013, 25, 7-9.	2.2	3
58	PCR Alone is Insufficient for Identifying Structural Modifications to Yeast Chromosomes. <i>BioTechniques</i> , 1999, 26, 238-240.	1.8	2
59	DNA Repair Dysregulation in Cancer: From Molecular Mechanisms to Synthetic Lethal Opportunities. , 2015, , 7-28.		1
60	Radiation-Induced Delayed Genome Instability and Hypermutation in Mammalian Cells. , 2013, , 183-198.		1
61	Assaying DNA double-strand break induction and repair as fast as a speeding comet. <i>Cell Cycle</i> , 2013, 12, 1335-1335.	2.6	0
62	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> , 2022, 12, 562-573.	1.4	0