

Nancy Maizels

List of Publications by Year in descending order

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75
papers

6,257
citations

101384

36
h-index

79541

73
g-index

81
all docs

81
docs citations

81
times ranked

5708
citing authors

#	ARTICLE	IF	CITATIONS
1	The Bloom's Syndrome Helicase Unwinds G4 DNA. <i>Journal of Biological Chemistry</i> , 1998, 273, 27587-27592.	1.6	472
2	Intracellular transcription of G-rich DNAs induces formation of G-loops, novel structures containing G4 DNA. <i>Genes and Development</i> , 2004, 18, 1618-1629.	2.7	452
3	Gene function correlates with potential for G4 DNA formation in the human genome. <i>Nucleic Acids Research</i> , 2006, 34, 3887-3896.	6.5	452
4	The G4 Genome. <i>PLoS Genetics</i> , 2013, 9, e1003468.	1.5	437
5	Dynamic roles for G4 DNA in the biology of eukaryotic cells. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 1055-1059.	3.6	393
6	G4-associated human diseases. <i>EMBO Reports</i> , 2015, 16, 910-922.	2.0	261
7	Conserved elements with potential to form polymorphic G-quadruplex structures in the first intron of human genes. <i>Nucleic Acids Research</i> , 2008, 36, 1321-1333.	6.5	258
8	Immunoglobulin Gene Diversification. <i>Annual Review of Genetics</i> , 2005, 39, 23-46.	3.2	241
9	High Affinity Interactions of Nucleolin with G-G-paired rDNA. <i>Journal of Biological Chemistry</i> , 1999, 274, 15908-15912.	1.6	196
10	G quadruplexes are genomewide targets of transcriptional helicases XPB and XPD. <i>Nature Chemical Biology</i> , 2014, 10, 313-318.	3.9	183
11	Homology-directed repair of DNA nicks via pathways distinct from canonical double-strand break repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E924-32.	3.3	174
12	G4 DNA Binding by LR1 and Its Subunits, Nucleolin and hnRNP D, A Role for G-G pairing in Immunoglobulin Switch Recombination. <i>Journal of Biological Chemistry</i> , 1999, 274, 1066-1071.	1.6	159
13	AID binds to transcription-induced structures in c-MYC that map to regions associated with translocation and hypermutation. <i>Oncogene</i> , 2005, 24, 5791-5798.	2.6	128
14	A Conserved G4 DNA Binding Domain in RecQ Family Helicases. <i>Journal of Molecular Biology</i> , 2006, 358, 1071-1080.	2.0	126
15	CpG Island Methylator Phenotype Is Associated With Response to Adjuvant Irinotecan-Based Therapy for Stage III Colon Cancer. <i>Gastroenterology</i> , 2014, 147, 637-645.	0.6	118
16	Somatic hypermutation: How many mechanisms diversify V region sequences?. <i>Cell</i> , 1995, 83, 9-12.	13.5	112
17	MutS± Binds to and Promotes Synapsis of Transcriptionally Activated Immunoglobulin Switch Regions. <i>Current Biology</i> , 2005, 15, 470-474.	1.8	111
18	Generation of a nicking enzyme that stimulates site-specific gene conversion from the I-Anil LAGLIDADG homing endonuclease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5099-5104.	3.3	108

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19	Regulation of gene expression by the BLM helicase correlates with the presence of G-quadruplex DNA motifs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9905-9910.	3.3	108
20	A rapid and sensitive assay for DNA-protein covalent complexes in living cells. <i>Nucleic Acids Research</i> , 2013, 41, e104-e104.	6.5	106
21	G4 motifs correlate with promoter-proximal transcriptional pausing in human genes. <i>Nucleic Acids Research</i> , 2011, 39, 4975-4983.	6.5	101
22	In Vitro Properties of the Conserved Mammalian Protein hnRNP D Suggest a Role in Telomere Maintenance. <i>Molecular and Cellular Biology</i> , 2000, 20, 5425-5432.	1.1	90
23	The Werner syndrome RECQ helicase targets G4 DNA in human cells to modulate transcription. <i>Human Molecular Genetics</i> , 2016, 25, 2060-2069.	1.4	81
24	DNA Breaks in Hypermutating Immunoglobulin Genes: Evidence for a Break-and-Repair Pathway of Somatic Hypermutation. <i>Genetics</i> , 2001, 158, 369-378.	1.2	77
25	MRE11/RAD50 Cleaves DNA in the AID/UNG-Dependent Pathway of Immunoglobulin Gene Diversification. <i>Molecular Cell</i> , 2005, 20, 367-375.	4.5	72
26	Somatic hypermutation and the three R's: repair, replication and recombination. <i>Mutation Research - Reviews in Mutation Research</i> , 1999, 436, 157-178.	2.4	70
27	Novel fluorescent genome editing reporters for monitoring DNA repair pathway utilization at endonuclease-induced breaks. <i>Nucleic Acids Research</i> , 2014, 42, e4-e4.	6.5	65
28	The MRE11-RAD50-NBS1 complex accelerates somatic hypermutation and gene conversion of immunoglobulin variable regions. <i>Nature Immunology</i> , 2005, 6, 730-736.	7.0	62
29	G-quadruplexes Sequester Free Heme in Living Cells. <i>Cell Chemical Biology</i> , 2019, 26, 1681-1691.e5.	2.5	58
30	G-Rich Proto-Oncogenes Are Targeted for Genomic Instability in B-Cell Lymphomas. <i>Cancer Research</i> , 2007, 67, 2586-2594.	0.4	57
31	DNA Nicks Promote Efficient and Safe Targeted Gene Correction. <i>PLoS ONE</i> , 2011, 6, e23981.	1.1	57
32	DNA Repair Factor MRE11/RAD50 Cleaves 3'-Phosphotyrosyl Bonds and Resects DNA to Repair Damage Caused by Topoisomerase 1 Poisons. <i>Journal of Biological Chemistry</i> , 2011, 286, 44945-44951.	1.6	51
33	Selection for the G4 DNA motif at the 5' end of human genes. <i>Molecular Carcinogenesis</i> , 2009, 48, 319-325.	1.3	48
34	Two Distinct Pathways Support Gene Correction by Single-Stranded Donors at DNA Nicks. <i>Cell Reports</i> , 2016, 17, 1872-1881.	2.9	45
35	Chromatin Structure Regulates Gene Conversion. <i>PLoS Biology</i> , 2007, 5, e246.	2.6	42
36	Recovery of Soluble, Active Recombinant Protein from Inclusion Bodies. <i>BioTechniques</i> , 1997, 23, 1036-1038.	0.8	41

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37	MRE11 Function in Response to Topoisomerase Poisons Is Independent of its Function in Double-Strand Break Repair in <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2010, 5, e15387.	1.1	36
38	Initiation of homologous recombination at DNA nicks. <i>Nucleic Acids Research</i> , 2018, 46, 6962-6973.	6.5	34
39	Ultrasensitive isolation, identification and quantification of DNA-protein adducts by ELISA-based RADAR assay. <i>Nucleic Acids Research</i> , 2014, 42, e108-e108.	6.5	33
40	Cell Cycle Regulates Nuclear Stability of AID and Determines the Cellular Response to AID. <i>PLoS Genetics</i> , 2015, 11, e1005411.	1.5	32
41	A μ 1 transgene under the control of a heavy chain promoter and enhancer does not undergo somatic hypermutation. <i>European Journal of Immunology</i> , 1994, 24, 1649-1656.	1.6	30
42	Genomic Stability: FANCD1-Dependent G4 DNA Repair. <i>Current Biology</i> , 2008, 18, R613-R614.	1.8	30
43	Targeted gene therapies: tools, applications, optimization. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2012, 47, 264-281.	2.3	30
44	EVOLUTION:Enhanced: A Deadly Double Life. <i>Science</i> , 1999, 284, 63-64.	6.0	28
45	Activities of human exonuclease 1 that promote cleavage of transcribed immunoglobulin switch regions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16508-16512.	3.3	28
46	Transcription-coupled mutagenesis by the DNA deaminase AID. <i>Genome Biology</i> , 2004, 5, 211.	13.9	26
47	G4 motifs in human genes. <i>Annals of the New York Academy of Sciences</i> , 2012, 1267, 53-60.	1.8	26
48	Distinct Activities of Exonuclease 1 and Flap Endonuclease 1 at Telomeric G4 DNA. <i>PLoS ONE</i> , 2010, 5, e8908.	1.1	22
49	Recombination-based mechanisms for somatic hypermutation. <i>Immunological Reviews</i> , 1998, 162, 67-76.	2.8	21
50	E2A Acts in cis in G1 Phase of Cell Cycle to Promote Ig Gene Diversification. <i>Journal of Immunology</i> , 2009, 182, 408-415.	0.4	21
51	G4 DNA: at risk in the genome. <i>EMBO Journal</i> , 2011, 30, 3878-3879.	3.5	21
52	PMS2-deficiency diminishes hypermutation of a μ 1 transgene in young but not older mice. <i>Molecular Immunology</i> , 1999, 36, 83-91.	1.0	20
53	Immunoglobulin Class Switch Recombination: Will Genetics Provide New Clues to Mechanism?. <i>American Journal of Human Genetics</i> , 1999, 64, 1270-1275.	2.6	19
54	POLQ suppresses interhomolog recombination and loss of heterozygosity at targeted DNA breaks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22900-22909.	3.3	19

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55	Topoisomerase Assays. <i>Current Protocols</i> , 2021, 1, e250.	1.3	19
56	Temporal Regulation of Ig Gene Diversification Revealed by Single-Cell Imaging. <i>Journal of Immunology</i> , 2009, 183, 4545-4553.	0.4	17
57	MRE11-Deficiency Associated with Improved Long-Term Disease Free Survival and Overall Survival in a Subset of Stage III Colon Cancer Patients in Randomized CALGB 89803 Trial. <i>PLoS ONE</i> , 2014, 9, e108483.	1.1	17
58	High-fidelity correction of genomic uracil by human mismatch repair activities. <i>BMC Molecular Biology</i> , 2008, 9, 94.	3.0	13
59	Increased levels of RECQ5 shift DNA repair from canonical to alternative pathways. <i>Nucleic Acids Research</i> , 2018, 46, 9496-9509.	6.5	13
60	Assaying Repair at DNA Nicks. <i>Methods in Enzymology</i> , 2018, 601, 71-89.	0.4	10
61	The "adductome": A limited repertoire of adducted proteins in human cells. <i>DNA Repair</i> , 2020, 89, 102825.	1.3	10
62	Genome Engineering with Cre-loxP. <i>Journal of Immunology</i> , 2013, 191, 5-6.	0.4	9
63	Genetic Variation Stimulated by Epigenetic Modification. <i>PLoS ONE</i> , 2008, 3, e4075.	1.1	9
64	Breaksite batch mapping, a rapid method for assay and identification of DNA breaksites in mammalian cells. <i>Nucleic Acids Research</i> , 2001, 29, 33e-33.	6.5	8
65	Isotype exclusion in β 1 transgenic mice depends on transgene copy number and diminishes with down-regulation of transgene transcripts. <i>European Journal of Immunology</i> , 1995, 25, 187-191.	1.6	7
66	Pathways and signatures of mutagenesis at targeted DNA nicks. <i>PLoS Genetics</i> , 2021, 17, e1009329.	1.5	7
67	RAD51 paralogs promote homology-directed repair at diversifying immunoglobulin V regions. <i>BMC Molecular Biology</i> , 2009, 10, 98.	3.0	6
68	Activation-induced deaminase (AID) localizes to the nucleus in brief pulses. <i>PLoS Genetics</i> , 2019, 15, e1007968.	1.5	5
69	Rapid, direct detection of bacterial topoisomerase 1-DNA adducts by RADAR/ELISA. <i>Analytical Biochemistry</i> , 2020, 608, 113827.	1.1	5
70	Treatment of human cells with 5-aza-dC induces formation of PARP1-DNA covalent adducts at genomic regions targeted by DNMT1. <i>DNA Repair</i> , 2020, 96, 102977.	1.3	4
71	Molecular Mechanism of Hypermutation. , 2004, , 327-338.		4
72	Epigenetic Modification of the Repair Donor Regulates Targeted Gene Correction. <i>Molecular Therapy - Nucleic Acids</i> , 2012, 1, e49.	2.3	3

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73	Antibody Discovery Ex Vivo Accelerated by the LacO/LacI Regulatory Network. PLoS ONE, 2012, 7, e36032.	1.1	2
74	Secret sharers in the immune system: a novel RNA editing activity links switch recombination and somatic hypermutation. Genome Biology, 2000, 1, reviews1025.1.	13.9	1
75	Targeted Gene Correction: Gene Therapy Promoted by Meganucleases. FASEB Journal, 2011, 25, 202.2.	0.2	0