Alexander V Mazin

List of Publications by Year
in descending order

40 papers	2,784 citations	257450 24 h-index	330143 37 g-index
40 all docs	40 docs citations	40 times ranked	3061 citing authors

#	Article	IF	Citations
1	New RAD51 Inhibitors to Target Homologous Recombination in Human Cells. Genes, 2021, 12, 920.	2.4	22
2	Branch Migration Activity of Rad54 Protein. Methods in Molecular Biology, 2021, 2153, 145-167.	0.9	0
3	RAD52: Paradigm of Synthetic Lethality and New Developments. Frontiers in Genetics, 2021, 12, 780293.	2.3	30
4	Genetic Characterization of Three Distinct Mechanisms Supporting RNA-Driven DNA Repair and Modification Reveals Major Role of DNA Polymerase Î¶. Molecular Cell, 2020, 79, 1037-1050.e5.	9.7	29
5	The function of RAD52 N-terminal domain is essential for viability of BRCA-deficient cells. Nucleic Acids Research, 2020, 48, 12778-12791.	14.5	17
6	Replication protein A binds RNA and promotes R-loop formation. Journal of Biological Chemistry, 2020, 295, 14203-14213.	3.4	26
7	A novel landscape of nuclear human CDK2 substrates revealed by in situ phosphorylation. Science Advances, 2020, 6, eaaz9899.	10.3	22
8	The Post-Synaptic Function of Brca2. Scientific Reports, 2019, 9, 4554.	3.3	4
9	RAD54 N-terminal domain is a DNA sensor that couples ATP hydrolysis with branch migration of Holliday junctions. Nature Communications, 2018, 9, 34.	12.8	26
10	Reconstituting the 4-Strand DNA Strand Exchange. Methods in Enzymology, 2018, 600, 285-305.	1.0	2
11	FANCA Promotes DNA Double-Strand Break Repair by Catalyzing Single-Strand Annealing and Strand Exchange. Molecular Cell, 2018, 71, 621-628.e4.	9.7	65
12	Simultaneous Targeting of PARP1 and RAD52 Triggers Dual Synthetic Lethality in BRCA-Deficient Tumor Cells. Cell Reports, 2018, 23, 3127-3136.	6.4	68
13	Rad52 Inverse Strand Exchange Drives RNA-Templated DNA Double-Strand Break Repair. Molecular Cell, 2017, 67, 19-29.e3.	9.7	126
14	Reappearance from Obscurity: Mammalian Rad52 in Homologous Recombination. Genes, 2016, 7, 63.	2.4	67
15	Targeting BRCA1- and BRCA2-deficient cells with RAD52 small molecule inhibitors. Nucleic Acids Research, 2016, 44, 4189-4199.	14.5	81
16	Characterization of the recombination activities of the Entamoeba histolytica Rad51 recombinase. Molecular and Biochemical Parasitology, 2016, 210, 71-84.	1.1	9
17	BRCA2 regulates DMC1-mediated recombination through the BRC repeats. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3515-3520.	7.1	77
18	A Small Molecule Inhibitor of Human RAD51 Potentiates Breast Cancer Cell Killing by Therapeutic Agents in Mouse Xenografts. PLoS ONE, 2014, 9, e100993.	2.5	101

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19	HOP2-MND1 modulates RAD51 binding to nucleotides and DNA. Nature Communications, 2014, 5, 4198.	12.8	54
20	A high-throughput chemical screen with FDA approved drugs reveals that the antihypertensive drug Spironolactone impairs cancer cell survival by inhibiting homology directed repair. Nucleic Acids Research, 2014, 42, 5689-5701.	14.5	35
21	Transcript-RNA-templated DNA recombination and repair. Nature, 2014, 515, 436-439.	27.8	263
22	Targeting the homologous recombination pathway by small molecule modulators. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 3006-3013.	2.2	18
23	Polarity and Bypass of DNA Heterology during Branch Migration of Holliday Junctions by Human RAD54, BLM, and RECQ1 Proteins. Journal of Biological Chemistry, 2012, 287, 11820-11832.	3.4	28
24	Inhibition of Homologous Recombination in Human Cells by Targeting RAD51 Recombinase. Journal of Medicinal Chemistry, 2012, 55, 3011-3020.	6.4	115
25	Identification of Specific Inhibitors of Human RAD51 Recombinase Using High-Throughput Screening. ACS Chemical Biology, 2011, 6, 628-635.	3.4	182
26	The resistance of DMC1 D-loops to dissociation may account for the DMC1 requirement in meiosis. Nature Structural and Molecular Biology, 2011, 18, 56-60.	8.2	47
27	The RecA/RAD51 protein drives migration of Holliday junctions via polymerization on DNA. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6432-6437.	7.1	17
28	Cooperation of RAD51 and RAD54 in regression of a model replication fork. Nucleic Acids Research, 2011, 39, 2153-2164.	14.5	74
29	Rad54, the motor of homologous recombination. DNA Repair, 2010, 9, 286-302.	2.8	148
30	Human Rad52 binds and wraps single-stranded DNA and mediates annealing via two hRad52â€“ssDNA complexes. Nucleic Acids Research, 2010, 38, 2917-2930.	14.5	121
31	Analyzing the branch migration activities of eukaryotic proteins. Methods, 2010, 51, 336-346.	3.8	16
32	Fanconi Anemia Group J Mutation Abolishes its DNA Repair Function by Uncoupling DNA Translocation from Helicase Activity. FASEB Journal, 2010, 24, lb40.	0.5	0
33	Interactions of Human Rad54 Protein with Branched DNA Molecules*. Journal of Biological Chemistry, 2007, 282, 21068-21080.	3.4	31
34	Rad54 dissociates homologous recombination intermediates by branch migration. Nature Structural and Molecular Biology, 2007, 14, 746-753.	8.2	95
35	Rad54 protein promotes branch migration of Holliday junctions. Nature, 2006, 442, 590-593.	27.8	169
36	Ca2+ activates human homologous recombination protein Rad51 by modulating its ATPase activity. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9988-9993.	7.1	229

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37	Human Rad54 Protein Stimulates DNA Strand Exchange Activity of hRad51 Protein in the Presence of Ca2+. Journal of Biological Chemistry, 2004, 279, 52042-52051.	3.4	69
38	A Novel Function of Rad54 Protein. Journal of Biological Chemistry, 2003, 278, 14029-14036.	3.4	154
39	Tailed duplex DNA is the preferred substrate for Rad51 protein-mediated homologous pairing. EMBO Journal, 2000, 19, 1148-1156.	7.8	145
40	Analysis of branch migration activities of proteins using synthetic DNA substrates. Protocol Exchange, 0, , .	0.3	2