

# Alexander V Mazin

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Transcript-RNA-templated DNA recombination and repair. <i>Nature</i> , 2014, 515, 436-439.	27.8	263
2	Ca <sup>2+</sup> activates human homologous recombination protein Rad51 by modulating its ATPase activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 9988-9993.	7.1	229
3	Identification of Specific Inhibitors of Human RAD51 Recombinase Using High-Throughput Screening. <i>ACS Chemical Biology</i> , 2011, 6, 628-635.	3.4	182
4	Rad54 protein promotes branch migration of Holliday junctions. <i>Nature</i> , 2006, 442, 590-593.	27.8	169
5	A Novel Function of Rad54 Protein. <i>Journal of Biological Chemistry</i> , 2003, 278, 14029-14036.	3.4	154
6	Rad54, the motor of homologous recombination. <i>DNA Repair</i> , 2010, 9, 286-302.	2.8	148
7	Tailed duplex DNA is the preferred substrate for Rad51 protein-mediated homologous pairing. <i>EMBO Journal</i> , 2000, 19, 1148-1156.	7.8	145
8	Rad52 Inverse Strand Exchange Drives RNA-Templated DNA Double-Strand Break Repair. <i>Molecular Cell</i> , 2017, 67, 19-29.e3.	9.7	126
9	Human Rad52 binds and wraps single-stranded DNA and mediates annealing via two hRad52-ssDNA complexes. <i>Nucleic Acids Research</i> , 2010, 38, 2917-2930.	14.5	121
10	Inhibition of Homologous Recombination in Human Cells by Targeting RAD51 Recombinase. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 3011-3020.	6.4	115
11	A Small Molecule Inhibitor of Human RAD51 Potentiates Breast Cancer Cell Killing by Therapeutic Agents in Mouse Xenografts. <i>PLoS ONE</i> , 2014, 9, e100993.	2.5	101
12	Rad54 dissociates homologous recombination intermediates by branch migration. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 746-753.	8.2	95
13	Targeting BRCA1- and BRCA2-deficient cells with RAD52 small molecule inhibitors. <i>Nucleic Acids Research</i> , 2016, 44, 4189-4199.	14.5	81
14	BRCA2 regulates DMC1-mediated recombination through the BRC repeats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3515-3520.	7.1	77
15	Cooperation of RAD51 and RAD54 in regression of a model replication fork. <i>Nucleic Acids Research</i> , 2011, 39, 2153-2164.	14.5	74
16	Human Rad54 Protein Stimulates DNA Strand Exchange Activity of hRad51 Protein in the Presence of Ca <sup>2+</sup> . <i>Journal of Biological Chemistry</i> , 2004, 279, 52042-52051.	3.4	69
17	Simultaneous Targeting of PARP1 and RAD52 Triggers Dual Synthetic Lethality in BRCA-Deficient Tumor Cells. <i>Cell Reports</i> , 2018, 23, 3127-3136.	6.4	68
18	Reappearance from Obscurity: Mammalian Rad52 in Homologous Recombination. <i>Genes</i> , 2016, 7, 63.	2.4	67

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19	FANCA Promotes DNA Double-Strand Break Repair by Catalyzing Single-Strand Annealing and Strand Exchange. <i>Molecular Cell</i> , 2018, 71, 621-628.e4.	9.7	65
20	HOP2-MND1 modulates RAD51 binding to nucleotides and DNA. <i>Nature Communications</i> , 2014, 5, 4198.	12.8	54
21	The resistance of DMC1 D-loops to dissociation may account for the DMC1 requirement in meiosis. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 56-60.	8.2	47
22	A high-throughput chemical screen with FDA approved drugs reveals that the antihypertensive drug Spironolactone impairs cancer cell survival by inhibiting homology directed repair. <i>Nucleic Acids Research</i> , 2014, 42, 5689-5701.	14.5	35
23	Interactions of Human Rad54 Protein with Branched DNA Molecules*. <i>Journal of Biological Chemistry</i> , 2007, 282, 21068-21080.	3.4	31
24	RAD52: Paradigm of Synthetic Lethality and New Developments. <i>Frontiers in Genetics</i> , 2021, 12, 780293.	2.3	30
25	Genetic Characterization of Three Distinct Mechanisms Supporting RNA-Driven DNA Repair and Modification Reveals Major Role of DNA Polymerase $\eta$ . <i>Molecular Cell</i> , 2020, 79, 1037-1050.e5.	9.7	29
26	Polarity and Bypass of DNA Heterology during Branch Migration of Holliday Junctions by Human RAD54, BLM, and RECQ1 Proteins. <i>Journal of Biological Chemistry</i> , 2012, 287, 11820-11832.	3.4	28
27	RAD54 N-terminal domain is a DNA sensor that couples ATP hydrolysis with branch migration of Holliday junctions. <i>Nature Communications</i> , 2018, 9, 34.	12.8	26
28	Replication protein A binds RNA and promotes R-loop formation. <i>Journal of Biological Chemistry</i> , 2020, 295, 14203-14213.	3.4	26
29	A novel landscape of nuclear human CDK2 substrates revealed by in situ phosphorylation. <i>Science Advances</i> , 2020, 6, eaaz9899.	10.3	22
30	New RAD51 Inhibitors to Target Homologous Recombination in Human Cells. <i>Genes</i> , 2021, 12, 920.	2.4	22
31	Targeting the homologous recombination pathway by small molecule modulators. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 3006-3013.	2.2	18
32	The RecA/RAD51 protein drives migration of Holliday junctions via polymerization on DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6432-6437.	7.1	17
33	The function of RAD52 N-terminal domain is essential for viability of BRCA-deficient cells. <i>Nucleic Acids Research</i> , 2020, 48, 12778-12791.	14.5	17
34	Analyzing the branch migration activities of eukaryotic proteins. <i>Methods</i> , 2010, 51, 336-346.	3.8	16
35	Characterization of the recombination activities of the <i>Entamoeba histolytica</i> Rad51 recombinase. <i>Molecular and Biochemical Parasitology</i> , 2016, 210, 71-84.	1.1	9
36	The Post-Synaptic Function of Brca2. <i>Scientific Reports</i> , 2019, 9, 4554.	3.3	4

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37	Reconstituting the 4-Strand DNA Strand Exchange. <i>Methods in Enzymology</i> , 2018, 600, 285-305.	1.0	2
38	Analysis of branch migration activities of proteins using synthetic DNA substrates. <i>Protocol Exchange</i> , 0, , .	0.3	2
39	Fanconi Anemia Group J Mutation Abolishes its DNA Repair Function by Uncoupling DNA Translocation from Helicase Activity. <i>FASEB Journal</i> , 2010, 24, 1b40.	0.5	0
40	Branch Migration Activity of Rad54 Protein. <i>Methods in Molecular Biology</i> , 2021, 2153, 145-167.	0.9	0