Guo-Min Li

List of Publications by Year
in descending order

86	6,470	94433 37	66911 78
papers	citations	h-index	g-index

88	88	88	7969
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanisms and functions of DNA mismatch repair. Cell Research, 2008, 18, 85-98.	12.0	1,081
2	Hypermutability and mismatch repair deficiency in RER+ tumor cells. Cell, 1993, 75, 1227-1236.	28.9	1,031
3	The Histone Mark H3K36me3 Regulates Human DNA Mismatch Repair through Its Interaction with MutSÎ±. Cell, 2013, 153, 590-600.	28.9	504
4	ARID1A deficiency promotes mutability and potentiates therapeutic antitumor immunity unleashed by immune checkpoint blockade. Nature Medicine, 2018, 24, 556-562.	30.7	372
5	Reconstitution of 5â€²-Directed Human Mismatch Repair in a Purified System. Cell, 2005, 122, 693-705.	28.9	316
6	Mismatch Repair Genes Mlh1 and Mlh3 Modify CAG Instability in Huntington's Disease Mice: Genome-Wide and Candidate Approaches. PLoS Genetics, 2013, 9, e1003930.	3.5	175
7	DNA Sensing in Mismatch Repair-Deficient Tumor Cells Is Essential for Anti-tumor Immunity. Cancer Cell, 2021, 39, 96-108.e6.	16.8	153
8	Mismatch Repair Processing of Carcinogen-DNA Adducts Triggers Apoptosis. Molecular and Cellular Biology, 1999, 19, 8292-8301.	2.3	115
9	Evidence for Involvement of HMGB1 Protein in Human DNA Mismatch Repair. Journal of Biological Chemistry, 2004, 279, 20935-20940.	3.4	112
10	HDAC6 Deacetylates and Ubiquitinates MSH2 to Maintain Proper Levels of MutSÎ±. Molecular Cell, 2014, 55, 31-46.	9.7	112
11	MLH1 Deficiency-Triggered DNA Hyperexcision by Exonuclease 1 Activates the cGAS-STING Pathway. Cancer Cell, 2021, 39, 109-121.e5.	16.8	108
12	Identification and characterization of OGG1 mutations in patients with Alzheimer's disease. Nucleic Acids Research, 2007, 35, 2759-2766.	14.5	105
13	Altered 8-oxoguanine glycosylase in mild cognitive impairment and late-stage Alzheimer's disease brain. Free Radical Biology and Medicine, 2008, 45, 813-819.	2.9	99
14	Specific Binding of Human MSH2Â·MSH6 Mismatch-Repair Protein Heterodimers to DNA Incorporating Thymine- or Uracil-containing UV Light Photoproducts Opposite Mismatched Bases. Journal of Biological Chemistry, 1999, 274, 16894-16900.	3.4	93
15	Prereplicative repair of oxidized bases in the human genome is mediated by NEIL1 DNA glycosylase together with replication proteins. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3090-9.	7.1	90
16	Cancer-driving H3G34V/R/D mutations block H3K36 methylation and H3K36me3â€"MutSÎ± interaction. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9598-9603.	7.1	87
17	Genetic and epigenetic modification of mismatch repair genes hMSH2 and hMLH1 in sporadic breast cancer with microsatellite instability. Oncogene, 2002, 21, 5696-5703.	5.9	80
18	Partial Reconstitution of Human DNA Mismatch Repair In Vitro: Characterization of the Role of Human Replication Protein A. Molecular and Cellular Biology, 2002, 22, 2037-2046.	2.3	75

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19	Effect of Carcinogenic Acrolein on DNA Repair and Mutagenic Susceptibility. Journal of Biological Chemistry, 2012, 287, 12379-12386.	3.4	75
20	Targeted DNA damage at individual telomeres disrupts their integrity and triggers cell death. Nucleic Acids Research, 2015, 43, 6334-6347.	14.5	68
21	Truncating mutation in the autophagy gene UVRAG confers oncogenic properties and chemosensitivity in colorectal cancers. Nature Communications, 2015, 6, 7839.	12.8	67
22	DNA mismatch repair and cancer. Frontiers in Bioscience - Landmark, 2003, 8, d997-1017.	3.0	66
23	Phosphorylation of PCNA by EGFR inhibits mismatch repair and promotes misincorporation during DNA synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5667-5672.	7.1	60
24	Evidence That Nucleosomes Inhibit Mismatch Repair in Eukaryotic Cells. Journal of Biological Chemistry, 2009, 284, 33056-33061.	3.4	59
25	Human MutSÎ± Specifically Binds to DNA Containing Aminofluorene and Acetylaminofluorene Adducts. Journal of Biological Chemistry, 1996, 271, 24084-24088.	3.4	54
26	hMRE11 deficiency leads to microsatellite instability and defective DNA mismatch repair. EMBO Reports, 2005, 6, 438-444.	4.5	49
27	Folate deficiency, mismatch repair-dependent apoptosis, and human disease. Journal of Nutritional Biochemistry, 2003, 14, 568-575.	4.2	47
28	Differential Requirement for Proliferating Cell Nuclear Antigen in 5â€² and 3â€² Nick-directed Excision in Human Mismatch Repair. Journal of Biological Chemistry, 2004, 279, 16912-16917.	3.4	47
29	Roles of mismatch repair proteins hMSH2 and hMLH1 in the development of sporadic breast cancer. Cancer Letters, 2005, 223, 143-150.	7.2	47
30	Distinct Nucleotide Binding/Hydrolysis Properties and Molar Ratio of MutSÎ± and MutSÎ² Determine Their Differential Mismatch Binding Activities. Journal of Biological Chemistry, 2009, 284, 11557-11562.	3.4	47
31	Incision-dependent and error-free repair of (CAG)n/(CTG)n hairpins in human cell extracts. Nature Structural and Molecular Biology, 2009, 16, 869-875.	8.2	47
32	Mismatch Recognition Protein MutSÎ² Does Not Hijack (CAG) Hairpin Repair in Vitro. Journal of Biological Chemistry, 2009, 284, 20452-20456.	3.4	45
33	MutSÎ² promotes trinucleotide repeat expansion by recruiting DNA polymerase Î² to nascent (CAG)n or (CTG)n hairpins for error-prone DNA synthesis. Cell Research, 2016, 26, 775-786.	12.0	43
34	Mismatch repair deficiency in hematological malignancies with microsatellite instability. Oncogene, 2002, 21, 5758-5764.	5.9	41
35	Bi-directional Processing of DNA Loops by Mismatch Repair-dependent and -independent Pathways in Human Cells. Journal of Biological Chemistry, 2003, 278, 3891-3896.	3.4	41
36	The C-terminal Domain (CTD) of Human DNA Glycosylase NEIL1 Is Required for Forming BERosome Repair Complex with DNA Replication Proteins at the Replicating Genome. Journal of Biological Chemistry, 2015, 290, 20919-20933.	3.4	41

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37	Ubiquitin-specific Peptidase 10 (USP10) Deubiquitinates and Stabilizes MutS Homolog 2 (MSH2) to Regulate Cellular Sensitivity to DNA Damage. Journal of Biological Chemistry, 2016, 291, 10783-10791.	3.4	41
38	Molecular Cooperation between the Werner Syndrome Protein and Replication Protein A in Relation to Replication Fork Blockage. Journal of Biological Chemistry, 2011, 286, 3497-3508.	3.4	39
39	Modulation of microRNA processing by mismatch repair protein MutLÎ±. Cell Research, 2012, 22, 973-985.	12.0	38
40	Involvement of DNA mismatch repair in folate deficiency-induced apoptosisâ˜†. Journal of Nutritional Biochemistry, 2002, 13, 355-363.	4.2	36
41	Decoding the Histone Code: Role of H3K36me3 in Mismatch Repair and Implications for Cancer Susceptibility and Therapy. Cancer Research, 2013, 73, 6379-6383.	0.9	36
42	Regulation of Replication Protein A Functions in DNA Mismatch Repair by Phosphorylation. Journal of Biological Chemistry, 2006, 281, 21607-21616.	3.4	34
43	New insights and challenges in mismatch repair: Getting over the chromatin hurdle. DNA Repair, 2014, 19, 48-54.	2.8	33
44	Arsenic Inhibits DNA Mismatch Repair by Promoting EGFR Expression and PCNA Phosphorylation. Journal of Biological Chemistry, 2015, 290, 14536-14541.	3.4	33
45	Okazaki fragment maturation involves Î±â€segment error editing by the mammalian <scp>FEN</scp> 1/MutSÎ± functional complex. EMBO Journal, 2015, 34, 1829-1843.	7.8	28
46	HDAC6 regulates DNA damage response via deacetylating MLH1. Journal of Biological Chemistry, 2019, 294, 5813-5826.	3.4	28
47	MutSÎ² abundance and Msh3 ATP hydrolysis activity are important drivers of CTGâ€¢CAG repeat expansions. Nucleic Acids Research, 2017, 45, 10068-10078.	14.5	27
48	Mispair-bound human MutSâ€"MutL complex triggers DNA incisions and activates mismatch repair. Cell Research, 2021, 31, 542-553.	12.0	26
49	DNA instability in replicating Huntington's disease lymphoblasts. BMC Medical Genetics, 2009, 10, 11.	2.1	24
50	DNA mismatch repair preferentially safeguards actively transcribed genes. DNA Repair, 2018, 71, 82-86.	2.8	24
51	Regulation of mismatch repair by histone code and posttranslational modifications in eukaryotic cells. DNA Repair, 2016, 38, 68-74.	2.8	22
52	In vitro repair of DNA hairpins containing various numbers of CAG/CTG trinucleotide repeats. DNA Repair, 2012, 11, 201-209.	2.8	20
53	A human MUTYH variant linking colonic polyposis to redox degradation of the [4Fe4S]2+ cluster. Nature Chemistry, 2018, 10, 873-880.	13.6	20
54	Phosphorylation of proliferating cell nuclear antigen promotes cancer progression by activating the ATM/Akt/GSK3Î²/Snail signaling pathway. Journal of Biological Chemistry, 2019, 294, 7037-7045.	3.4	20

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55	MIF is a 3â€™ flap nuclease that facilitates DNA replication and promotes tumor growth. Nature Communications, 2021, 12, 2954.	12.8	20
56	Nick-dependent and -independent Processing of Large DNA Loops in Human Cells. Journal of Biological Chemistry, 2003, 278, 50803-50809.	3.4	19
57	HDAC3 deacetylates the DNA mismatch repair factor MutSÎ² to stimulate triplet repeat expansions. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23597-23605.	7.1	19
58	Coordinated Processing of 3â€² Slipped (CAG)n/(CTG)n Hairpins by DNA Polymerases Î² and Î´ Preferentially Induces Repeat Expansions. Journal of Biological Chemistry, 2013, 288, 15015-15022.	3.4	18
59	The Werner Syndrome Protein Promotes CAG/CTG Repeat Stability by Resolving Large (CAG) /(CTG) Hairpins. Journal of Biological Chemistry, 2012, 287, 30151-30156.	3.4	17
60	Trinucleotide repeat expansions catalyzed by human cell-free extracts. Cell Research, 2013, 23, 565-572.	12.0	16
61	Identification of novel genetic variants predisposing to familial oral squamous cell carcinomas. Cell Discovery, 2019, 5, 57.	6.7	16
62	In vitro and in vivo modulations of benzo[c]phenanthrene-DNA adducts by DNA mismatch repair system. Nucleic Acids Research, 2003, 31, 6428-6434.	14.5	15
63	DNA mismatch repair in the context of chromatin. Cell and Bioscience, 2020, 10, 10.	4.8	15
64	OTUB1 stabilizes mismatch repair protein MSH2 by blocking ubiquitination. Journal of Biological Chemistry, 2021, 296, 100466.	3.4	15
65	The Role of XPG in Processing (CAG)n/(CTG)n DNA Hairpins. Cell and Bioscience, 2011, 1, 11.	4.8	14
66	Increased transversions in a novel mutator colon cancer cell line. Oncogene, 1998, 16, 1125-1130.	5.9	13
67	DNA mismatch repair in the chromatin context: Mechanisms and therapeutic potential. DNA Repair, 2020, 93, 102918.	2.8	10
68	Identification of Regulatory Factor X as a Novel Mismatch Repair Stimulatory Factor. Journal of Biological Chemistry, 2008, 283, 12730-12735.	3.4	9
69	The hMSH2(M688R) Lynch syndrome mutation may function as a dominant negative. Carcinogenesis, 2012, 33, 1647-1654.	2.8	8
70	A special issue on DNA damage response and genome stability. Cell and Bioscience, 2012, 2, 4.	4.8	8
71	NBS1-CtIPâ€“mediated DNA end resection suppresses cGAS binding to micronuclei. Nucleic Acids Research, 2022, 50, 2681-2699.	14.5	8
72	DNA-PKcs-dependent phosphorylation of RECQL4 promotes NHEJ by stabilizing the NHEJ machinery at DNA double-strand breaks. Nucleic Acids Research, 2022, 50, 5635-5651.	14.5	8

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73	Novel molecular insights into the mechanism of GO removal by MutM. Cell Research, 2010, 20, 116-118.	12.0	7
74	DNA polymerase Î¸ promotes CAGâ€¢CTG repeat expansions in Huntingtonâ€™s disease via insertion sequences of its catalytic domain. Journal of Biological Chemistry, 2021, 297, 101144.	3.4	7
75	A special issue on DNA damage responses and genome maintenance. Cell Research, 2008, 18, 1-2.	12.0	6
76	DNA mismatch repair in trinucleotide repeat instability. Science China Life Sciences, 2017, 60, 1087-1092.	4.9	6
77	Analysis of DNA Mismatch Repair in Cellular Response to DNA Damage. Methods in Enzymology, 2006, 408, 303-317.	1.0	4
78	Proteomic analysis of mismatch repair-mediated alkylating agent-induced DNA damage response. Cell and Bioscience, 2013, 3, 37.	4.8	4
79	Interplay between H3K36me3, methyltransferase SETD2, and mismatch recognition protein MutSÎ± facilitates processing of oxidative DNA damage in human cells. Journal of Biological Chemistry, 2022, 298, 102102.	3.4	4
80	Mismatch Repair. , 2014, , 1-14.		0
81	DNA repair | DNA Mismatch Repair and the DNA Damage Response. , 2021, , 232-235.		0
82	DNA Mismatch Repair: Biological Functions and Molecular Mechanisms. , 2007, , 87-117.		0
83	Regulation of mismatch repair protein MutSÎ± functions by its Walker A and Walker B motifs. FASEB Journal, 2013, 27, 758.9.	0.5	0
84	Coordinated processing of 3â€² slipped (CAG)n/(CTG)n hairpins by DNA polymerases preferentially induces repeat expansions. FASEB Journal, 2013, 27, 758.4.	0.5	0
85	Clamping down on mismatches. ELife, 2016, 5, .	6.0	0
86	Mismatch Repair. , 2018, , 683-695.		0