Ashok S Bhagwat

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7749688/publications.pdf

Version: 2024-02-01

76	4,158	136950	118850
papers	citations	32 h-index	62 g-index

78	78	78	4138
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A nomenclature for restriction enzymes, DNA methyltransferases, homing endonucleases and their genes. Nucleic Acids Research, 2003, 31, 1805-1812.	14.5	634
2	Predictive motifs derived from cytosine methyltransferases. Nucleic Acids Research, 1989, 17, 2421-2435.	14.5	513
3	Human activation-induced cytidine deaminase causes transcription-dependent, strand-biased C to U deaminations. Nucleic Acids Research, 2003, 31, 2990-2994.	14.5	247
4	Phylogenomic identification of five new human homologs of the DNA repair enzyme AlkB. BMC Genomics, 2003, 4, 48.	2.8	180
5	Excision of 5-hydroxymethyluracil and 5-carboxylcytosine by the thymine DNA glycosylase domain: its structural basis and implications for active DNA demethylation. Nucleic Acids Research, 2012, 40, 10203-10214.	14.5	134
6	Nucleotide sequence and expression of the gene encoding theEcoRII modification enzyme. Nucleic Acids Research, 1987, 15, 313-332.	14.5	111
7	Transcription-Associated Mutagenesis. Annual Review of Genetics, 2014, 48, 341-359.	7.6	104
8	Functions and Malfunctions of Mammalian DNA-Cytosine Deaminases. Chemical Reviews, 2016, 116, 12688-12710.	47.7	104
9	Efficient deamination of 5-methylcytosines in DNA by human APOBEC3A, but not by AID or APOBEC3G. Nucleic Acids Research, 2012, 40, 9206-9217.	14.5	100
10	Very short patch repair: reducing the cost of cytosine methylation. Molecular Microbiology, 1996, 20, 467-473.	2.5	99
11	Strand-biased cytosine deamination at the replication fork causes cytosine to thymine mutations in Escherichia coli. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2176-2181.	7.1	94
12	Determinants of sequence-specificity within human AID and APOBEC3G. DNA Repair, 2010, 9, 579-587.	2.8	85
13	A Cytosine Methyltransferase Converts 5-Methylcytosine in DNA to Thymine. Biochemistry, 1995, 34, 14752-14757.	2.5	83
14	Principal causes of hot spots for cytosine to thymine mutations at sites of cytosine methylation in growing cells. Mutation Research - Reviews in Mutation Research, 1999, 437, 11-20.	5.5	82
15	The cysteine conserved among DNA cytosine methylasesis required for methyl transfer, but not for specific DNA binding. Nucleic Acids Research, 1993, 21, 295-301.	14.5	79
16	Base Damage within Single-Strand DNA Underlies In Vivo Hypermutability Induced by a Ubiquitous Environmental Agent. PLoS Genetics, 2012, 8, e1003149.	3.5	76
17	APOBEC3A damages the cellular genome during DNA replication. Cell Cycle, 2016, 15, 998-1008.	2.6	69
18	An extended APOBEC3A mutation signature in cancer. Nature Communications, 2021, 12, 1602.	12.8	69

#	Article	IF	Citations
19	Mismatch Repair in Methylated DNA. Journal of Biological Chemistry, 2003, 278, 5285-5291.	3.4	68
20	Cooperation and competition in mismatch repair: very short-patch repair and methyl-directed mismatch repair in Escherichia coli. Molecular Microbiology, 2002, 44, 1421-1428.	2.5	67
21	Substitutions of a cysteine conserved among DNA cytosine methylases result in a variety of phenotypes. Nucleic Acids Research, 1992, 20, 319-326.	14.5	65
22	DNA mismatch correction by Very Short Patch repair may have altered the abundance of oligonucleotides in theE. coligenome. Nucleic Acids Research, 1992, 20, 1663-1668.	14.5	60
23	The Role of the Escherichia coli Mug Protein in the Removal of Uracil and 3,N 4-Ethenocytosine from DNA. Journal of Biological Chemistry, 1999, 274, 31034-31038.	3.4	59
24	The COMBREX Project: Design, Methodology, and Initial Results. PLoS Biology, 2013, 11, e1001638.	5.6	54
25	Mismatch Uracil Glycosylase from Escherichia coli. Journal of Biological Chemistry, 2003, 278, 20526-20532.	3.4	53
26	Overproduction of DNA Cytosine Methyltransferases Causes Methylation and C â–² T Mutations at Non-canonical Sites. Journal of Biological Chemistry, 1996, 271, 7851-7859.	3.4	47
27	Cytosine methyltransferase from Escherichia coli in which active site cysteine is replaced with serine is partially active. Biochemistry, 1995, 34, 8914-8923.	2.5	46
28	Mutations induced by bacteriophage T7 RNA polymerase and their effects on the composition of the T7 genome11Edited by M. Gottesman. Journal of Molecular Biology, 2000, 300, 1057-1065.	4.2	46
29	Transcriptional pausing and stalling causes multiple clustered mutations by human activationâ€induced deaminase. FASEB Journal, 2009, 23, 34-44.	0.5	38
30	Transcription-Dependent Increase in Multiple Classes of Base Substitution Mutations in Escherichia coli. Journal of Bacteriology, 2002, 184, 6866-6872.	2.2	37
31	Mechanism of expression of DNA repair gene vsr, an Escherichia coli gene that overlaps the DNA cytosine methylase gene, dcm. Molecular Microbiology, 1993, 9, 823-833.	2.5	34
32	Transcription-Induced Cytosine-to-Thymine Mutations Are Not Dependent on Sequence Context of the Target Cytosine. Journal of Bacteriology, 2001, 183, 6491-6493.	2.2	33
33	Central base pair flipping and discrimination by PspGI. Nucleic Acids Research, 2008, 36, 6109-6117.	14.5	32
34	FAM72A antagonizes UNG2 to promote mutagenic repair during antibody maturation. Nature, 2021, 600, 324-328.	27.8	29
35	Evaluation of Molecular Models for the Affinity Maturation of Antibodies:â€‰ Roles of Cytosine Deamination by AID and DNA Repair. Chemical Reviews, 2006, 106, 700-719.	47.7	28
36	Escherichia coli DNA glycosylase Mug: a growth-regulated enzyme required for mutation avoidance in stationary-phase cells. Molecular Microbiology, 2008, 41, 1101-1111.	2.5	28

#	Article	IF	Citations
37	A versatile new tool to quantify abasic sites in DNA and inhibit base excision repair. DNA Repair, 2015, 27, 9-18.	2.8	28
38	Characterization of the Catalytic Domain of Human APOBEC3B and the Critical Structural Role for a Conserved Methionine. Journal of Molecular Biology, 2015, 427, 3042-3055.	4.2	28
39	[21] Restriction enzymes: Properties and use. Methods in Enzymology, 1992, 216, 199-224.	1.0	27
40	Reviving a Dead Enzyme:â€‰ Cytosine Deaminations Promoted by an Inactive DNA Methyltransferase and an S-Adenosylmethionine Analogue. Biochemistry, 2000, 39, 14611-14616.	2.5	27
41	Sequence motifs specific for cytosine methyltransferases. Gene, 1988, 74, 261-265.	2.2	26
42	DNA-cytosine deaminases: from antibody maturation to antiviral defense. DNA Repair, 2004, 3, 85-89.	2.8	24
43	Genomic Uracil Homeostasis during Normal B Cell Maturation and Loss of This Balance during B Cell Cancer Development. Molecular and Cellular Biology, 2014, 34, 4019-4032.	2.3	23
44	Protection of DNA by Î±/Î²-Type Small, Acid-Soluble Proteins from Bacillus subtilis Spores Against Cytosine Deamination. Biochemistry, 2002, 41, 11325-11330.	2.5	22
45	Transcription promotes guanine to thymine mutations in the non-transcribed strand of an Escherichia coli gene. DNA Repair, 2005, 4, 806-813.	2.8	22
46	A Tumor-Promoting Phorbol Ester Causes a Large Increase in APOBEC3A Expression and a Moderate Increase in APOBEC3B Expression in a Normal Human Keratinocyte Cell Line without Increasing Genomic Uracils. Molecular and Cellular Biology, 2019, 39, .	2.3	22
47	Human Herpes Simplex Virus-1 depletes APOBEC3A from nuclei. Virology, 2019, 537, 104-109.	2.4	21
48	Visualization of uracils created by APOBEC3A using UdgX shows colocalization with RPA at stalled replication forks. Nucleic Acids Research, 2020, 48, e118-e118.	14.5	19
49	Genome-wide mapping of regions preferentially targeted by the human DNA-cytosine deaminase APOBEC3A using uracil-DNA pulldown and sequencing. Journal of Biological Chemistry, 2019, 294, 15037-15051.	3.4	18
50	A DNA repair process in Escherichia coli corrects U:G and T:G mismatches to C:G at sites of cytosine methylation. Molecular Genetics and Genomics, 1994, 243, 244-248.	2.4	16
51	Interaction of MutS and Vsr: Some Dominant-Negative mutS Mutations That Disable Methyladenine-Directed Mismatch Repair Are Active in Very-Short-Patch Repair. Journal of Bacteriology, 2001, 183, 6487-6490.	2.2	13
52	Sequence-dependent enhancement of hydrolytic deamination of cytosines in DNA by the restriction enzyme PspGI. Nucleic Acids Research, 2006, 34, 3762-3770.	14.5	13
53	Transcription increases methylmethane sulfonate-induced mutations in alkB strains of Escherichia coli. DNA Repair, 2008, 7, 1289-1297.	2.8	13
54	A new gene involved in mismatch correction in Escherichia coli. Gene, 1988, 74, 153-156.	2.2	12

#	Article	IF	Citations
55	Structure and properties of the region of homology between plasmids pMB1 and ColE1. Molecular Genetics and Genomics, 1981, 182, 505-507.	2.4	11
56	DsaV methyltransferase and its isoschizomers contain a conserved segment that is similar to the segment in HhaI methyltransferase that is in contact with DNA bases. Nucleic Acids Research, 1994, 22, 4482-4488.	14.5	10
57	Unscheduled DNA synthesis leads to elevated uracil residues at highly transcribed genomic loci in Saccharomyces cerevisiae. PLoS Genetics, 2018, 14, e1007516.	3.5	10
58	Importance of the tmRNA system for cell survival when transcription is blocked by DNAâ€“protein crossâ€links. Molecular Microbiology, 2010, 78, 686-700.	2.5	9
59	A novel class of chemicals that react with abasic sites in DNA and specifically kill B cell cancers. PLoS ONE, 2017, 12, e0185010.	2.5	9
60	Is AID a monomer in solution?. DNA Repair, 2008, 7, 349-350.	2.8	8
61	Human activation-induced deaminase lacks strong replicative strand bias or preference for cytosines in hairpin loops. Nucleic Acids Research, 2022, 50, 5145-5157.	14.5	8
62	Use of Drosophila deoxynucleoside kinase to study mechanism of toxicity and mutagenicity of deoxycytidine analogs in Escherichia coli. DNA Repair, 2010, 9, 153-160.	2.8	7
63	DNA base flipping by both members of the PspGI restriction-modification system. Nucleic Acids Research, 2008, 36, 5417-5425.	14.5	6
64	APOBEC3 enzymes mediate efficacy of cisplatin and are epistatic with base excision repair and mismatch repair in platinum response. NAR Cancer, 2020, 2, zcaa033.	3.1	5
65	Lack of dependance of transcription-induced cytosine deaminations on protein synthesis. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2002, 508, 131-136.	1.0	4
66	Determination of methylation specificity of DsaV methyltransferase by a simple biochemical method. Nucleic Acids Research, 1995, 23, 29-35.	14.5	3
67	A rapid and sensitive method to measure DNA endonuclease activity. Nucleic Acids Research, 1993, 21, 5797-5798.	14.5	2
68	A novel repetitive sequence lies near the gene encoding a cytosine methyltransferase in the cyanobacterium Dactylococcopsis salina. Gene, 1995, 164, 71-74.	2.2	2
69	Comment on â€œDeoxyuridine Triphosphate Incorporation during Somatic Hypermutation of Mouse VkOx Genes after Immunization with Phenyloxazoloneâ€• Journal of Immunology, 2010, 185, 7130.2-7131.	0.8	1
70	Cloning and characterization of the gene encoding the DsaV methyltransferase. Gene, 1995, 157, 61-63.	2.2	0
71	Interaction of the Escherichia coli Vsr with DNA and Mismatch Repair Proteins. , 2005, , .		0
72	DNA flipping by restriction endonucleases. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, s153-s153.	0.3	0

#	Article	IF	Citations
73	Mechanism of Avoidance of 5-methylcytosine to Thymine Mutations in Bacteria. , 1998, , 119-129.		0
74	Abstract 3016: APOBEC3 enzymes induce damage to the cellular genome during DNA replication. , 2015, , .		0
75	Abstract 3757: A novel class of chemicals that react with damaged DNA and specifically kill B-cell cancers. , 2016, , .		0
76	Abstract 3802: A novel uracil-DNA glycosylase, UdgX, as a new biochemical tool to directly detect uracils in DNA. , 2017, , .		0