

Humaira Gowher

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2994061/publications.pdf>

Version: 2024-02-01

39
papers

2,543
citations

236925

25
h-index

302126

39
g-index

44
all docs

44
docs citations

44
times ranked

3050
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of Stimulation of Catalytic Activity of Dnmt3A and Dnmt3B DNA-(cytosine-C5)-methyltransferases by Dnmt3L. <i>Journal of Biological Chemistry</i> , 2005, 280, 13341-13348.	3.4	250
2	Dnmt3a and Dnmt1 functionally cooperate during <i>de novo</i> methylation of DNA. <i>FEBS Journal</i> , 2002, 269, 4981-4984.	0.2	221
3	Enzymatic properties of recombinant Dnmt3a DNA methyltransferase from mouse: the enzyme modifies DNA in a non-processive manner and also methylates non-CpA sites. <i>Journal of Molecular Biology</i> , 2001, 309, 1201-1208.	4.2	217
4	Molecular Enzymology of the Catalytic Domains of the Dnmt3a and Dnmt3b DNA Methyltransferases. <i>Journal of Biological Chemistry</i> , 2002, 277, 20409-20414.	3.4	177
5	Chromatin Targeting of <i>de Novo</i> DNA Methyltransferases by the PWWP Domain. <i>Journal of Biological Chemistry</i> , 2004, 279, 25447-25454.	3.4	176
6	Mammalian DNA methyltransferases: new discoveries and open questions. <i>Biochemical Society Transactions</i> , 2018, 46, 1191-1202.	3.4	122
7	Chromatin domains, insulators, and the regulation of gene expression. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2012, 1819, 644-651.	1.9	115
8	DNMT3L facilitates DNA methylation partly by maintaining DNMT3A stability in mouse embryonic stem cells. <i>Nucleic Acids Research</i> , 2019, 47, 152-167.	14.5	99
9	The <i>Escherichia coli</i> Dam DNA Methyltransferase Modifies DNA in a Highly Processive Reaction. <i>Journal of Molecular Biology</i> , 2002, 319, 1085-1096.	4.2	95
10	VEZF1 Elements Mediate Protection from DNA Methylation. <i>PLoS Genetics</i> , 2010, 6, e1000804.	3.5	91
11	Mechanism of inhibition of DNA methyltransferases by cytidine analogs in cancer therapy. <i>Cancer Biology and Therapy</i> , 2004, 3, 1062-1068.	3.4	85
12	Mutational Analysis of the Catalytic Domain of the Murine Dnmt3a DNA-(cytosine) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td (C5)-m	4.2	83
13	<i>De Novo</i> Methylation of Nucleosomal DNA by the Mammalian Dnmt1 and Dnmt3A DNA Methyltransferases. <i>Biochemistry</i> , 2005, 44, 9899-9904.	2.5	78
14	An epigenetic switch regulates <i>de novo</i> DNA methylation at a subset of pluripotency gene enhancers during embryonic stem cell differentiation. <i>Nucleic Acids Research</i> , 2016, 44, 7605-7617.	14.5	70
15	Catalytic Mechanism of DNA-(cytosine-C5)-methyltransferases Revisited: Covalent Intermediate Formation is not Essential for Methyl Group Transfer by the Murine Dnmt3a Enzyme. <i>Journal of Molecular Biology</i> , 2003, 329, 675-684.	4.2	69
16	Molecular enzymology of the Eco RV DNA-(adenine-N6)-methyltransferase: kinetics of DNA binding and bending, kinetic mechanism and linear diffusion of the enzyme on DNA. <i>Journal of Molecular Biology</i> , 2000, 303, 93-110.	4.2	65
17	Extra-coding RNAs regulate neuronal DNA methylation dynamics. <i>Nature Communications</i> , 2016, 7, 12091.	12.8	57
18	Mutations in DNA methyltransferase DNMT3B in ICF syndrome affect its regulation by DNMT3L. <i>Human Molecular Genetics</i> , 2006, 15, 1375-1385.	2.9	52

#	ARTICLE	IF	CITATIONS
19	From Phenylthiazoles to Phenylpyrazoles: Broadening the Antibacterial Spectrum toward Carbapenem-Resistant Bacteria. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 7998-8010.	6.4	41
20	Vezf1 regulates genomic DNA methylation through its effects on expression of DNA methyltransferase Dnmt3b. <i>Genes and Development</i> , 2008, 22, 2075-2084.	5.9	38
21	Phosphorylation of Serine-515 Activates the Mammalian Maintenance Methyltransferase Dnmt1. <i>Epigenetics</i> , 2007, 2, 155-160.	2.7	36
22	Vezf1 protein binding sites genome-wide are associated with pausing of elongating RNA polymerase II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2370-2375.	7.1	35
23	Integrative genomic analysis of pediatric T-cell lymphoblastic lymphoma reveals candidates of clinical significance. <i>Blood</i> , 2021, 137, 2347-2359.	1.4	31
24	DNA from <i>Aspergillus flavus</i> contains 5-methylcytosine. <i>FEMS Microbiology Letters</i> , 2001, 205, 151-155.	1.8	30
25	Avidin plate assay system for enzymatic characterization of a histone lysine methyltransferase. <i>Analytical Biochemistry</i> , 2005, 342, 287-291.	2.4	28
26	The transcription factor Vezf1 represses the expression of the antiangiogenic factor Cited2 in endothelial cells. <i>Journal of Biological Chemistry</i> , 2018, 293, 11109-11118.	3.4	26
27	Lipophilic efficient phenylthiazoles with potent undecaprenyl pyrophosphatase inhibitory activity. <i>European Journal of Medicinal Chemistry</i> , 2019, 175, 49-62.	5.5	24
28	Dnmt3b Methylates DNA by a Noncooperative Mechanism, and Its Activity Is Unaffected by Manipulations at the Predicted Dimer Interface. <i>Biochemistry</i> , 2018, 57, 4312-4324.	2.5	23
29	Effect of Disease-Associated Germline Mutations on Structure Function Relationship of DNA Methyltransferases. <i>Genes</i> , 2019, 10, 369.	2.4	23
30	The acute myeloid leukemia variant DNMT3A Arg882His is a DNMT3B-like enzyme. <i>Nucleic Acids Research</i> , 2020, 48, 3761-3775.	14.5	18
31	Oct4-Mediated Inhibition of Lsd1 Activity Promotes the Active and Primed State of Pluripotency Enhancers. <i>Cell Reports</i> , 2020, 30, 1478-1490.e6.	6.4	17
32	A refined DNA methylation detection method using MspI coupled quantitative PCR. <i>Analytical Biochemistry</i> , 2017, 533, 1-9.	2.4	12
33	Development of Biphenylthiazoles Exhibiting Improved Pharmacokinetics and Potent Activity Against Intracellular <i>Staphylococcus aureus</i> . <i>ACS Infectious Diseases</i> , 2020, 6, 2887-2900.	3.8	11
34	Editorial—Role of DNA Methyltransferases in the Epigenome. <i>Genes</i> , 2019, 10, 574.	2.4	8
35	Misregulation of the expression and activity of DNA methyltransferases in cancer. <i>NAR Cancer</i> , 2021, 3, zcab045.	3.1	8
36	Characterization of Small Molecules Inhibiting the Pro-Angiogenic Activity of the Zinc Finger Transcription Factor Vezf1. <i>Molecules</i> , 2018, 23, 1615.	3.8	3

#	ARTICLE	IF	CITATIONS
37	Simplified MethylRAD Sequencing to Detect Changes in DNA Methylation at Enhancer Elements in Differentiating Embryonic Stem Cells. <i>Epigenomes</i> , 2020, 4, 24.	1.8	3
38	RyR2/IRBIT regulates insulin gene transcript, insulin content, and secretion in the insulinoma cell line INS-1. <i>Scientific Reports</i> , 2022, 12, 7713.	3.3	3
39	Bgp1/Vezf1 couples RNA Pol II activity and maintenance of genomic methylation. <i>FASEB Journal</i> , 2011, 25, 1b43.	0.5	0