PÃ¥l Ã˜ Falnes

List of Publications by Year
in descending order

60 papers	4,608 citations	126907 33 h-index	128289 60 g-index
60 all docs	60 docs citations	60 times ranked	3983 citing authors

#	Article	IF	Citations
1	Protein methylation in mitochondria. Journal of Biological Chemistry, 2022, 298, 101791.	3.4	18
2	The methyltransferase METTL9 mediates pervasive 1-methylhistidine modification in mammalian proteomes. Nature Communications, 2021, 12, 891.	12.8	54
3	Human METTL18 is a histidine-specific methyltransferase that targets RPL3 and affects ribosome biogenesis and function. Nucleic Acids Research, 2021, 49, 3185-3203.	14.5	34
4	The human methyltransferase ZCCHC4 catalyses N6-methyladenosine modification of 28S ribosomal RNA. Nucleic Acids Research, 2020, 48, 830-846.	14.5	88
5	Human FAM173A is a mitochondrial lysine-specific methyltransferase that targets adenine nucleotide translocase and affects mitochondrial respiration. Journal of Biological Chemistry, 2019, 294, 11654-11664.	3.4	18
6	Lysine methylation by the mitochondrial methyltransferase FAM173B optimizes the function of mitochondrial ATP synthase. Journal of Biological Chemistry, 2019, 294, 1128-1141.	3.4	18
7	Regulation of eukaryotic elongation factor 1 alpha (eEF1A) by dynamic lysine methylation. RNA Biology, 2018, 15, 314-319.	3.1	37
8	The dual methyltransferase METTL13 targets N terminus and Lys55 of eEF1A and modulates codon-specific translation rates. Nature Communications, 2018, 9, 3411.	12.8	81
9	Identification of FAM173B as a protein methyltransferase promoting chronic pain. PLoS Biology, 2018, 16, e2003452.	5.6	22
10	A System for Enzymatic Lysine Methylation in a Desired Sequence Context. ACS Omega, 2017, 2, 462-469.	3.5	2
11	The novel lysine specific methyltransferase METTL21B affects mRNA translation through inducible and dynamic methylation of Lys-165 in human eukaryotic elongation factor 1 alpha (eEF1A). Nucleic Acids Research, 2017, 45, gkx002.	14.5	64
12	Methylation of human eukaryotic elongation factor alpha (eEF1A) by a member of a novel protein lysine methyltransferase family modulates mRNA translation. Nucleic Acids Research, 2017, 45, 8239-8254.	14.5	44
13	Uncovering human METTL12 as a mitochondrial methyltransferase that modulates citrate synthase activity through metabolite-sensitive lysine methylation. Journal of Biological Chemistry, 2017, 292, 17950-17962.	3.4	27
14	Protein lysine methylation by seven-Î²-strand methyltransferases. Biochemical Journal, 2016, 473, 1995-2009.	3.7	92
15	The METTL20 Homologue from Agrobacterium tumefaciens Is a Dual Specificity Protein-lysine Methyltransferase That Targets Ribosomal Protein L7/L12 and the Î² Subunit of Electron Transfer Flavoprotein (ETFÎ²). Journal of Biological Chemistry, 2016, 291, 9581-9595.	3.4	14
16	Correspondence: On the enzymology and significance of HSPA1 lysine methylation. Nature Communications, 2016, 7, 11464.	12.8	18
17	Hsp70 (HSPA1) Lysine Methylation Status as a Potential Prognostic Factor in Metastatic High-Grade Serous Carcinoma. PLoS ONE, 2015, 10, e0140168.	2.5	15
18	Lysine Methylation of the Valosin-Containing Protein (VCP) Is Dispensable for Development and Survival of Mice. PLoS ONE, 2015, 10, e0141472.	2.5	14

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19	Human METTL20 Is a Mitochondrial Lysine Methyltransferase That Targets the Î² Subunit of Electron Transfer Flavoprotein (ETFÎ²) and Modulates Its Activity. Journal of Biological Chemistry, 2015, 290, 423-434.	3.4	48
20	Differential repair of etheno-DNA adducts by bacterial and human AlkB proteins. DNA Repair, 2015, 30, 1-10.	2.8	33
21	Saccharomyces cerevisiae Eukaryotic Elongation Factor 1A (eEF1A) Is Methylated at Lys-390 by a METTL21-Like Methyltransferase. PLoS ONE, 2015, 10, e0131426.	2.5	47
22	Role of ALKBH8 in the Synthesis of Wobble Uridine Modifications in tRNA. 2-Oxoglutarate-Dependent Oxygenases, 2015, , 275-288.	0.8	1
23	Protozoan ALKBH8 Oxygenases Display both DNA Repair and tRNA Modification Activities. PLoS ONE, 2014, 9, e98729.	2.5	28
24	Identification and Characterization of a Novel Evolutionarily Conserved Lysine-specific Methyltransferase Targeting Eukaryotic Translation Elongation Factor 2 (eEF2). Journal of Biological Chemistry, 2014, 289, 30499-30510.	3.4	56
25	Ikbkap/Elp1 Deficiency Causes Male Infertility by Disrupting Meiotic Progression. PLoS Genetics, 2013, 9, e1003516.	3.5	45
26	Identification and Characterization of a Novel Human Methyltransferase Modulating Hsp70 Protein Function through Lysine Methylation. Journal of Biological Chemistry, 2013, 288, 27752-27763.	3.4	93
27	The DNA dioxygenase ALKBH2 protects Arabidopsis thaliana against methylation damage. Nucleic Acids Research, 2012, 40, 6620-6631.	14.5	24
28	Lysine methylation of VCP by a member of a novel human protein methyltransferase family. Nature Communications, 2012, 3, 1038.	12.8	110
29	Human ALKBH4 Interacts with Proteins Associated with Transcription. PLoS ONE, 2012, 7, e49045.	2.5	27
30	The Schizosaccharomyces pombe AlkB homolog Abh1 exhibits AP lyase activity but no demethylase activity. DNA Repair, 2012, 11, 453-462.	2.8	16
31	ALKBH8-mediated formation of a novel diastereomeric pair of wobble nucleosides in mammalian tRNA. Nature Communications, 2011, 2, 172.	12.8	149
32	Roles of Trm9- and ALKBH8-like proteins in the formation of modified wobble uridines in Arabidopsis tRNA. Nucleic Acids Research, 2011, 39, 7688-7701.	14.5	48
33	Spectroscopic and magnetic studies of wild-type and mutant forms of the Fe(II)- and 2-oxoglutarate-dependent decarboxylase ALKBH4. Biochemical Journal, 2011, 434, 391-398.	3.7	21
34	Mammalian ALKBH8 Possesses tRNA Methyltransferase Activity Required for the Biogenesis of Multiple Wobble Uridine Modifications Implicated in Translational Decoding. Molecular and Cellular Biology, 2010, 30, 1814-1827.	2.3	191
35	Bioinformatics and functional analysis define four distinct groups of AlkB DNA-dioxygenases in bacteria. Nucleic Acids Research, 2009, 37, 7124-7136.	14.5	34
36	Viral AlkB proteins repair RNA damage by oxidative demethylation. Nucleic Acids Research, 2008, 36, 5451-5461.	14.5	109

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37	AlkB Homologue 2â€“Mediated Repair of Ethenoadenine Lesions in Mammalian DNA. Cancer Research, 2008, 68, 4142-4149.	0.9	71
38	Repair deficient mice reveal mABH2 as the primary oxidative demethylase for repairing 1meA and 3meC lesions in DNA. EMBO Journal, 2006, 25, 2189-2198.	7.8	164
39	RNA Repair - The Latest Addition To The Toolbox For Macromolecular Maintenance. RNA Biology, 2005, 2, 14-16.	3.1	6
40	Repair of 3-methylthymine and 1-methylguanine lesions by bacterial and human AlkB proteins. Nucleic Acids Research, 2004, 32, 6260-6267.	14.5	98
41	The Bacillus subtilis Counterpart of the Mammalian 3-Methyladenine DNA Glycosylase Has Hypoxanthine and 1,N6-Ethenoadenine as Preferred Substrates. Journal of Biological Chemistry, 2004, 279, 13601-13606.	3.4	24
42	Substrate specificities of bacterial and human AlkB proteins. Nucleic Acids Research, 2004, 32, 3456-3461.	14.5	104
43	AlkB Restores the Biological Function of mRNA and tRNA Inactivated by Chemical Methylation. Molecular Cell, 2004, 16, 107-116.	9.7	179
44	Human and bacterial oxidative demethylases repair alkylation damage in both RNA and DNA. Nature, 2003, 421, 859-863.	27.8	558
45	DNA repair by bacterial AlkB proteins. Research in Microbiology, 2003, 154, 531-538.	2.1	39
46	AlkB-mediated oxidative demethylation reverses DNA damage in Escherichia coli. Nature, 2002, 419, 178-182.	27.8	561
47	Ability of the Tat Basic Domain and VP22 To Mediate Cell Binding, but Not Membrane Translocation of the Diphtheria Toxin A-Fragmentâ€. Biochemistry, 2001, 40, 4349-4358.	2.5	86
48	Penetration of protein toxins into cells. Current Opinion in Cell Biology, 2000, 12, 407-413.	5.4	253
49	Probing Pores with Peptide Plugs. Journal of General Physiology, 2000, 115, 417-420.	1.9	7
50	Requirement for Prolonged Action in the Cytosol for Optimal Protein Synthesis Inhibition by Diphtheria Toxin. Journal of Biological Chemistry, 2000, 275, 4363-4368.	3.4	29
51	Externally Added aFGF Mutants Do Not Require Extensive Unfolding for Transport to the Cytosol and the Nucleus in NIH/3T3 Cells. Biochemistry, 2000, 39, 15091-15100.	2.5	24
52	Toxins that are activated by HIV type-1 protease through removal of a signal for degradation by the N-end-rule pathway. Biochemical Journal, 1999, 343, 199-207.	3.7	11
53	Toxins that are activated by HIV type-1 protease through removal of a signal for degradation by the N-end-rule pathway. Biochemical Journal, 1999, 343, 199.	3.7	7
54	Characterization of Membrane Translocation by Anthrax Protective Antigenâ€. Biochemistry, 1998, 37, 15737-15746.	2.5	203

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55	Inability of the Acidic Fibroblast Growth Factor Mutant K132E to Stimulate DNA Synthesis after Translocation into Cells. Journal of Biological Chemistry, 1998, 273, 11164-11172.	3.4	41
56	Cloning of an intracellular protein that binds selectively to mitogenic acidic fibroblast growth factor. Biochemical Journal, 1998, 336, 213-222.	3.7	54
57	Effect of mutation of cytoplasmic receptor domain and of genistein on transport of acidic fibroblast growth factor into cells. Oncogene, 1997, 15, 525-536.	5.9	31
58	Translocation to Cytosol of Exogenous, CAAX-tagged Acidic Fibroblast Growth Factor. Journal of Biological Chemistry, 1995, 270, 30680-30685.	3.4	46
59	Cell-mediated Reduction and Incomplete Membrane Translocation of Diphtheria Toxin Mutants with Internal Disulfides in the A Fragment. Journal of Biological Chemistry, 1995, 270, 20787-20793.	3.4	46
60	Dual mode of signal transduction by externally added acidic fibroblast growth factor. Cell, 1994, 76, 1039-1051.	28.9	226