

Pål Å Falnes

List of Publications by Year in descending order

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60
papers

4,608
citations

126907

33
h-index

128289

60
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60
all docs

60
docs citations

60
times ranked

3983
citing authors

#	ARTICLE	IF	CITATIONS
1	AlkB-mediated oxidative demethylation reverses DNA damage in Escherichia coli. Nature, 2002, 419, 178-182.	27.8	561
2	Human and bacterial oxidative demethylases repair alkylation damage in both RNA and DNA. Nature, 2003, 421, 859-863.	27.8	558
3	Penetration of protein toxins into cells. Current Opinion in Cell Biology, 2000, 12, 407-413.	5.4	253
4	Dual mode of signal transduction by externally added acidic fibroblast growth factor. Cell, 1994, 76, 1039-1051.	28.9	226
5	Characterization of Membrane Translocation by Anthrax Protective Antigen. Biochemistry, 1998, 37, 15737-15746.	2.5	203
6	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
7	AlkB Restores the Biological Function of mRNA and tRNA Inactivated by Chemical Methylation. Molecular Cell, 2004, 16, 107-116.	9.7	179
8	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
9	ALKBH8-mediated formation of a novel diastereomeric pair of wobble nucleosides in mammalian tRNA. Nature Communications, 2011, 2, 172.	12.8	149
10	Lysine methylation of VCP by a member of a novel human protein methyltransferase family. Nature Communications, 2012, 3, 1038.	12.8	110
11	Viral AlkB proteins repair RNA damage by oxidative demethylation. Nucleic Acids Research, 2008, 36, 5451-5461.	14.5	109
12	Substrate specificities of bacterial and human AlkB proteins. Nucleic Acids Research, 2004, 32, 3456-3461.	14.5	104
13	Repair of 3-methylthymine and 1-methylguanine lesions by bacterial and human AlkB proteins. Nucleic Acids Research, 2004, 32, 6260-6267.	14.5	98
14	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
15	Protein lysine methylation by seven-Î²-strand methyltransferases. Biochemical Journal, 2016, 473, 1995-2009.	3.7	92
16	The human methyltransferase ZCCHC4 catalyses N6-methyladenosine modification of 28S ribosomal RNA. Nucleic Acids Research, 2020, 48, 830-846.	14.5	88
17	Ability of the Tat Basic Domain and VP22 To Mediate Cell Binding, but Not Membrane Translocation of the Diphtheria Toxin A-Fragment. Biochemistry, 2001, 40, 4349-4358.	2.5	86
18	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

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19	AlkB Homologue 2â€™ Mediated Repair of Ethenoadenine Lesions in Mammalian DNA. <i>Cancer Research</i> , 2008, 68, 4142-4149.	0.9	71
20	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). <i>Nucleic Acids Research</i> , 2017, 45, gkx002.	14.5	64
21	Identification and Characterization of a Novel Evolutionarily Conserved Lysine-specific Methyltransferase Targeting Eukaryotic Translation Elongation Factor 2 (eEF2). <i>Journal of Biological Chemistry</i> , 2014, 289, 30499-30510.	3.4	56
22	Cloning of an intracellular protein that binds selectively to mitogenic acidic fibroblast growth factor. <i>Biochemical Journal</i> , 1998, 336, 213-222.	3.7	54
23	The methyltransferase METTL9 mediates pervasive 1-methylhistidine modification in mammalian proteomes. <i>Nature Communications</i> , 2021, 12, 891.	12.8	54
24	Roles of Trm9- and ALKBH8-like proteins in the formation of modified wobble uridines in Arabidopsis tRNA. <i>Nucleic Acids Research</i> , 2011, 39, 7688-7701.	14.5	48
25	Human METTL20 Is a Mitochondrial Lysine Methyltransferase That Targets the Î² Subunit of Electron Transfer Flavoprotein (ETFÎ²) and Modulates Its Activity. <i>Journal of Biological Chemistry</i> , 2015, 290, 423-434.	3.4	48
26	<i>Saccharomyces cerevisiae</i> Eukaryotic Elongation Factor 1A (eEF1A) Is Methylated at Lys-390 by a METTL21-Like Methyltransferase. <i>PLoS ONE</i> , 2015, 10, e0131426.	2.5	47
27	Translocation to Cytosol of Exogenous, CAAX-tagged Acidic Fibroblast Growth Factor. <i>Journal of Biological Chemistry</i> , 1995, 270, 30680-30685.	3.4	46
28	Cell-mediated Reduction and Incomplete Membrane Translocation of Diphtheria Toxin Mutants with Internal Disulfides in the A Fragment. <i>Journal of Biological Chemistry</i> , 1995, 270, 20787-20793.	3.4	46
29	<i>lbbkap/Elp1</i> Deficiency Causes Male Infertility by Disrupting Meiotic Progression. <i>PLoS Genetics</i> , 2013, 9, e1003516.	3.5	45
30	Methylation of human eukaryotic elongation factor alpha (eEF1A) by a member of a novel protein lysine methyltransferase family modulates mRNA translation. <i>Nucleic Acids Research</i> , 2017, 45, 8239-8254.	14.5	44
31	Inability of the Acidic Fibroblast Growth Factor Mutant K132E to Stimulate DNA Synthesis after Translocation into Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 11164-11172.	3.4	41
32	DNA repair by bacterial AlkB proteins. <i>Research in Microbiology</i> , 2003, 154, 531-538.	2.1	39
33	Regulation of eukaryotic elongation factor 1 alpha (eEF1A) by dynamic lysine methylation. <i>RNA Biology</i> , 2018, 15, 314-319.	3.1	37
34	Bioinformatics and functional analysis define four distinct groups of AlkB DNA-dioxygenases in bacteria. <i>Nucleic Acids Research</i> , 2009, 37, 7124-7136.	14.5	34
35	Human METTL18 is a histidine-specific methyltransferase that targets RPL3 and affects ribosome biogenesis and function. <i>Nucleic Acids Research</i> , 2021, 49, 3185-3203.	14.5	34
36	Differential repair of etheno-DNA adducts by bacterial and human AlkB proteins. <i>DNA Repair</i> , 2015, 30, 1-10.	2.8	33

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37	Effect of mutation of cytoplasmic receptor domain and of genistein on transport of acidic fibroblast growth factor into cells. <i>Oncogene</i> , 1997, 15, 525-536.	5.9	31
38	Requirement for Prolonged Action in the Cytosol for Optimal Protein Synthesis Inhibition by Diphtheria Toxin. <i>Journal of Biological Chemistry</i> , 2000, 275, 4363-4368.	3.4	29
39	Protozoan ALKBH8 Oxygenases Display both DNA Repair and tRNA Modification Activities. <i>PLoS ONE</i> , 2014, 9, e98729.	2.5	28
40	Human ALKBH4 Interacts with Proteins Associated with Transcription. <i>PLoS ONE</i> , 2012, 7, e49045.	2.5	27
41	Uncovering human METTL12 as a mitochondrial methyltransferase that modulates citrate synthase activity through metabolite-sensitive lysine methylation. <i>Journal of Biological Chemistry</i> , 2017, 292, 17950-17962.	3.4	27
42	Externally Added aFGF Mutants Do Not Require Extensive Unfolding for Transport to the Cytosol and the Nucleus in NIH/3T3 Cells. <i>Biochemistry</i> , 2000, 39, 15091-15100.	2.5	24
43	The <i>Bacillus subtilis</i> Counterpart of the Mammalian 3-Methyladenine DNA Glycosylase Has Hypoxanthine and 1,N6-Ethenoadenine as Preferred Substrates. <i>Journal of Biological Chemistry</i> , 2004, 279, 13601-13606.	3.4	24
44	The DNA dioxygenase ALKBH2 protects <i>Arabidopsis thaliana</i> against methylation damage. <i>Nucleic Acids Research</i> , 2012, 40, 6620-6631.	14.5	24
45	Identification of FAM173B as a protein methyltransferase promoting chronic pain. <i>PLoS Biology</i> , 2018, 16, e2003452.	5.6	22
46	Spectroscopic and magnetic studies of wild-type and mutant forms of the Fe(II)- and 2-oxoglutarate-dependent decarboxylase ALKBH4. <i>Biochemical Journal</i> , 2011, 434, 391-398.	3.7	21
47	Correspondence: On the enzymology and significance of HSPA1 lysine methylation. <i>Nature Communications</i> , 2016, 7, 11464.	12.8	18
48	Human FAM173A is a mitochondrial lysine-specific methyltransferase that targets adenine nucleotide translocase and affects mitochondrial respiration. <i>Journal of Biological Chemistry</i> , 2019, 294, 11654-11664.	3.4	18
49	Lysine methylation by the mitochondrial methyltransferase FAM173B optimizes the function of mitochondrial ATP synthase. <i>Journal of Biological Chemistry</i> , 2019, 294, 1128-1141.	3.4	18
50	Protein methylation in mitochondria. <i>Journal of Biological Chemistry</i> , 2022, 298, 101791.	3.4	18
51	The <i>Schizosaccharomyces pombe</i> AlkB homolog Abh1 exhibits AP lyase activity but no demethylase activity. <i>DNA Repair</i> , 2012, 11, 453-462.	2.8	16
52	Hsp70 (HSPA1) Lysine Methylation Status as a Potential Prognostic Factor in Metastatic High-Grade Serous Carcinoma. <i>PLoS ONE</i> , 2015, 10, e0140168.	2.5	15
53	Lysine Methylation of the Valosin-Containing Protein (VCP) Is Dispensable for Development and Survival of Mice. <i>PLoS ONE</i> , 2015, 10, e0141472.	2.5	14
54	The METTL20 Homologue from <i>Agrobacterium tumefaciens</i> Is a Dual Specificity Protein-lysine Methyltransferase That Targets Ribosomal Protein L7/L12 and the β^2 Subunit of Electron Transfer Flavoprotein (ETF β^2). <i>Journal of Biological Chemistry</i> , 2016, 291, 9581-9595.	3.4	14

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55	Toxins that are activated by HIV type-1 protease through removal of a signal for degradation by the N-end-rule pathway. <i>Biochemical Journal</i> , 1999, 343, 199-207.	3.7	11
56	Toxins that are activated by HIV type-1 protease through removal of a signal for degradation by the N-end-rule pathway. <i>Biochemical Journal</i> , 1999, 343, 199.	3.7	7
57	Probing Pores with Peptide Plugs. <i>Journal of General Physiology</i> , 2000, 115, 417-420.	1.9	7
58	RNA Repair - The Latest Addition To The Toolbox For Macromolecular Maintenance. <i>RNA Biology</i> , 2005, 2, 14-16.	3.1	6
59	A System for Enzymatic Lysine Methylation in a Desired Sequence Context. <i>ACS Omega</i> , 2017, 2, 462-469.	3.5	2
60	Role of ALKBH8 in the Synthesis of Wobble Uridine Modifications in tRNA. 2-Oxoglutarate-Dependent Oxygenases, 2015, , 275-288.	0.8	1