Arne Klungland

List of Publications by Year
in descending order

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77 papers	8,195 citations	126907 33 h-index	71685 76 g-index
80 all docs	80 docs citations	80 times ranked	9333 citing authors

#	Article	IF	Citations
1	ALKBH5 Is a Mammalian RNA Demethylase that Impacts RNA Metabolism and Mouse Fertility. Molecular Cell, 2013, 49, 18-29.	9.7	2,549
2	A majority of m⁶A residues are in the last exons, allowing the potential for 3â€² UTR regulation. Genes and Development, 2015, 29, 2037-2053.	5.9	653
3	Differential m6A, m6Am, and m1A Demethylation Mediated by FTO in the Cell Nucleus and Cytoplasm. Molecular Cell, 2018, 71, 973-985.e5.	9.7	506
4	Broad histone H3K4me3 domains in mouse oocytes modulate maternal-to-zygotic transition. Nature, 2016, 537, 548-552.	27.8	484
5	ALKBH5-dependent m6A demethylation controls splicing and stability of long 3â€²-UTR mRNAs in male germ cells. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E325-E333.	7.1	399
6	OGG1 initiates age-dependent CAG trinucleotide expansion in somatic cells. Nature, 2007, 447, 447-452.	27.8	392
7	ALKBH1-Mediated tRNA Demethylation Regulates Translation. Cell, 2016, 167, 816-828.e16.	28.9	366
8	Ythdf2-mediated m6A mRNA clearance modulates neural development in mice. Genome Biology, 2018, 19, 69.	8.8	216
9	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
10	Biochemical reconstitution of TET1â€“TDGâ€“BER-dependent active DNA demethylation reveals a highly coordinated mechanism. Nature Communications, 2016, 7, 10806.	12.8	166
11	RNA m6A methylation participates in regulation of postnatal development of the mouse cerebellum. Genome Biology, 2018, 19, 68.	8.8	166
12	ALKBH8-mediated formation of a novel diastereomeric pair of wobble nucleosides in mammalian tRNA. Nature Communications, 2011, 2, 172.	12.8	149
13	N6-methyladenosine regulates the stability of RNA:DNA hybrids in human cells. Nature Genetics, 2020, 52, 48-55.	21.4	147
14	ALKBH1 is a Histone H2A Dioxygenase Involved in Neural Differentiation. Stem Cells, 2012, 30, 2672-2682.	3.2	97
15	Dynamic RNA modifications in disease. Current Opinion in Genetics and Development, 2014, 26, 47-52.	3.3	92
16	KDM4A regulates the maternal-to-zygotic transition by protecting broad H3K4me3 domains from H3K9me3 invasion in oocytes. Nature Cell Biology, 2020, 22, 380-388.	10.3	77
17	ALKBH4-dependent demethylation of actin regulates actomyosin dynamics. Nature Communications, 2013, 4, 1832.	12.8	76
18	Neil1 is a genetic modifier of somatic and germline CAG trinucleotide repeat instability in R6/1 mice. Human Molecular Genetics, 2012, 21, 4939-4947.	2.9	66

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19	Oxidized C5-methyl cytosine bases in DNA: 5-Hydroxymethylcytosine; 5-formylcytosine; and 5-carboxycytosine. Free Radical Biology and Medicine, 2017, 107, 62-68.	2.9	66
20	Mice Lacking Alkbh1 Display Sex-Ratio Distortion and Unilateral Eye Defects. PLoS ONE, 2010, 5, e13827.	2.5	57
21	Non-homologous functions of the AlkB homologs. Journal of Molecular Cell Biology, 2015, 7, 494-504.	3.3	52
22	ALKBHs-facilitated RNA modifications and de-modifications. DNA Repair, 2016, 44, 87-91.	2.8	50
23	Sumoylation of Rap1 mediates the recruitment of TFIID to promote transcription of ribosomal protein genes. Genome Research, 2015, 25, 897-906.	5.5	49
24	NEIL3-Dependent Regulation of Cardiac Fibroblast Proliferation Prevents Myocardial Rupture. Cell Reports, 2017, 18, 82-92.	6.4	45
25	ALKBH overexpression in head and neck cancer: potential target for novel anticancer therapy. Scientific Reports, 2019, 9, 13249.	3.3	44
26	TRMT6/61A-dependent base methylation of tRNA-derived fragments regulates gene-silencing activity and the unfolded protein response in bladder cancer. Nature Communications, 2022, 13, 2165.	12.8	43
27	ALKBH7-mediated demethylation regulates mitochondrial polycistronic RNA processing. Nature Cell Biology, 2021, 23, 684-691.	10.3	41
28	Deletion of mouse Alkbh7 leads to obesity. Journal of Molecular Cell Biology, 2013, 5, 194-203.	3.3	40
29	Increased nuclear DNA damage precedes mitochondrial dysfunction in peripheral blood mononuclear cells from Huntingtonâ€™s disease patients. Scientific Reports, 2018, 8, 9817.	3.3	40
30	Synergistic Actions of Ogg1 and Mutyh DNA Glycosylases Modulate Anxiety-like Behavior in Mice. Cell Reports, 2015, 13, 2671-2678.	6.4	39
31	Impaired dynamics and function of mitochondria caused by mtDNA toxicity leads to heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H434-H449.	3.2	38
32	TORC1-dependent sumoylation of Rpc82 promotes RNA polymerase III assembly and activity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1039-1044.	7.1	38
33	Sequencing of FTO and ALKBH5 in men undergoing infertility work-up identifies an infertility-associated variant and two missense mutations. Fertility and Sterility, 2016, 105, 1170-1179.e5.	1.0	37
34	No cancer predisposition or increased spontaneous mutation frequencies in NEIL DNA glycosylases-deficient mice. Scientific Reports, 2017, 7, 4384.	3.3	37
35	Removal of aquaporin-4 from glial and ependymal membranes causes brain water accumulation. Molecular and Cellular Neurosciences, 2016, 77, 47-52.	2.2	35
36	Oxidative stress causes DNA triplet expansion in Huntington's disease mouse embryonic stem cells. Stem Cell Research, 2013, 11, 1264-1271.	0.7	34

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37	Reversible RNA modifications in meiosis and pluripotency. Nature Methods, 2017, 14, 18-22.	19.0	33
38	Nucleocytoplasmic Shuttling of FTO Does Not Affect Starvation-Induced Autophagy. PLoS ONE, 2017, 12, e0168182.	2.5	31
39	A ketogenic diet accelerates neurodegeneration in mice with induced mitochondrial DNA toxicity in the forebrain. Neurobiology of Aging, 2016, 48, 34-47.	3.1	30
40	Protozoan ALKBH8 Oxygenases Display both DNA Repair and tRNA Modification Activities. PLoS ONE, 2014, 9, e98729.	2.5	28
41	â€œToo much guts and not enough brainsâ€: (epi)genetic mechanisms and future therapies of Hirschsprung disease â€" a review. Clinical Epigenetics, 2019, 11, 135.	4.1	26
42	OXR1A, a Coactivator of PRMT5 Regulating Histone Arginine Methylation. Cell Reports, 2020, 30, 4165-4178.e7.	6.4	23
43	STIM1 R304W causes muscle degeneration and impaired platelet activation in mice. Cell Calcium, 2018, 76, 87-100.	2.4	21
44	Excision of uracil from DNA by hSMUG1 includes strand incision and processing. Nucleic Acids Research, 2019, 47, 779-793.	14.5	21
45	Changes of 5-hydroxymethylcytosine distribution during myeloid and lymphoid differentiation of CD34+ cells. Epigenetics and Chromatin, 2016, 9, 21.	3.9	19
46	ALKBH4 Depletion in Mice Leads to Spermatogenic Defects. PLoS ONE, 2014, 9, e105113.	2.5	18
47	Endonuclease G preferentially cleaves 5-hydroxymethylcytosine-modified DNA creating a substrate for recombination. Nucleic Acids Research, 2014, 42, 13280-13293.	14.5	18
48	Positioning Europe for the EPITRANSCRIPTOMICS challenge. RNA Biology, 2018, 15, 1-3.	3.1	18
49	N6-methyladenosine (m ⁶ A) depletion regulates pluripotency exit by activating signaling pathways in embryonic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	18
50	DNA base modifications in honey bee and fruit fly genomes suggest an active demethylation machinery with species- and tissue-specific turnover rates. Biochemistry and Biophysics Reports, 2016, 6, 9-15.	1.3	16
51	A transgenic minipig model of Huntington's disease shows early signs of behavioral and molecular pathologies. DMM Disease Models and Mechanisms, 2018, 11, .	2.4	15
52	Lysine Methylation of the Valosin-Containing Protein (VCP) Is Dispensable for Development and Survival of Mice. PLoS ONE, 2015, 10, e0141472.	2.5	14
53	Alkbh1 and Tzfp repress a non-repeat piRNA cluster in pachytene spermatocytes. Nucleic Acids Research, 2012, 40, 10950-10963.	14.5	13
54	ALKBH7 drives a tissue and sex-specific necrotic cell death response following alkylation-induced damage. Cell Death and Disease, 2017, 8, e2947-e2947.	6.3	13

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55	Tzfp Represses the Androgen Receptor in Mouse Testis. PLoS ONE, 2013, 8, e62314.	2.5	12
56	Role of the DNA repair glycosylase OGG1 in the activation of murine splenocytes. DNA Repair, 2017, 58, 13-20.	2.8	11
57	Micro Chromatin Immunoprecipitation (Î¼ChIP) from Early Mammalian Embryos. Methods in Molecular Biology, 2015, 1222, 227-245.	0.9	11
58	Effects of Anthocyanins on CAG Repeat Instability and Behaviour in Huntingtonâ€™s Disease R6/1 Mice. PLOS Currents, 2016, 8, .	1.4	11
59	Histone Methylations Define Neural Stem/Progenitor Cell Subtypes in the Mouse Subventricular Zone. Molecular Neurobiology, 2020, 57, 997-1008.	4.0	10
60	Metabolism and DNA repair shape a specific modification pattern in mitochondrial DNA. Mitochondrion, 2018, 40, 16-28.	3.4	9
61	Deletion of Endonuclease V suppresses chemically induced hepatocellular carcinoma. Nucleic Acids Research, 2020, 48, 4463-4479.	14.5	9
62	Genome-wide profiling of DNA 5-hydroxymethylcytosine during rat Sertoli cell maturation. Cell Discovery, 2017, 3, 17013.	6.7	8
63	Excision of the doubly methylated base N ⁴ ,5-dimethylcytosine from DNA by Escherichia coli Nei and Fpg proteins. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170337.	4.0	8
64	5-hydroxymethylcytosine Marks Mammalian Origins Acting as a Barrier to Replication. Scientific Reports, 2019, 9, 11065.	3.3	8
65	NEIL1 and NEIL2 DNA glycosylases modulate anxiety and learning in a cooperative manner in mice. Communications Biology, 2021, 4, 1354.	4.4	8
66	Waves of sumoylation support transcription dynamics during adipocyte differentiation. Nucleic Acids Research, 2022, 50, 1351-1369.	14.5	8
67	Endogenous DNA Damage and Repair Enzymes. Genomics, Proteomics and Bioinformatics, 2016, 14, 122-125.	6.9	6
68	Gene expression profiles in preterm infants on continuous long-term oxygen therapy suggest reduced oxidative stress-dependent signaling during hypoxia. Molecular Medicine Reports, 2017, 15, 1513-1526.	2.4	6
69	Bases of DNA repair and regulation. Nature Chemical Biology, 2014, 10, 487-488.	8.0	5
70	Modifications and interactions at the R-loop. DNA Repair, 2020, 96, 102958.	2.8	5
71	Base-excision repair and beyond â€"A short summary attributed to scientific achievements of Tomas Lindahl, Nobel Prize Laureate in Chemistry 2015. Science China Life Sciences, 2016, 59, 89-92.	4.9	3
72	The Escherichia coli alkA Gene Is Activated to Alleviate Mutagenesis by an Oxidized Deoxynucleoside. Frontiers in Microbiology, 2020, 11, 263.	3.5	3

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73	ALKBH5 regulates somatic cell reprogramming in a phase-specific manner. Journal of Cell Science, 2022, 135, .	2.0	3
74	Characterization of novel small non-coding RNAs and their modifications in bladder cancer using an updated small RNA-seq workflow. Frontiers in Molecular Biosciences, 0, 9, .	3.5	3
75	Intrinsic Strand-Incision Activity of Human UNG: Implications for Nick Generation in Immunoglobulin Gene Diversification. Frontiers in Immunology, 2021, 12, 762032.	4.8	2
76	Alleviation of Câ‹…C Mismatches in DNA by the Escherichia coli Fpg Protein. Frontiers in Microbiology, 2021, 12, 608839.	3.5	1
77	Studies on Proteinâ€“RNA:DNA Hybrid Interactions by Microscale Thermophoresis (MST). Methods in Molecular Biology, 2022, , 239-251.	0.9	1