

Michaela Frye

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

7,498
citations

81900

39
h-index

189892

50
g-index

56
all docs

56
docs citations

56
times ranked

7859
citing authors

#	ARTICLE	IF	CITATIONS
1	RNA modifications modulate gene expression during development. <i>Science</i> , 2018, 361, 1346-1349.	12.6	762
2	Aberrant methylation of tRNA links cellular stress to neurodevelopmental disorders. <i>EMBO Journal</i> , 2014, 33, 2020-2039.	7.8	490
3	RNA cytosine methylation by Dnmt2 and NSun2 promotes tRNA stability and protein synthesis. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 900-905.	8.2	488
4	Lrig1 Expression Defines a Distinct Multipotent Stem Cell Population in Mammalian Epidermis. <i>Cell Stem Cell</i> , 2009, 4, 427-439.	11.1	450
5	NSun2-Mediated Cytosine-5 Methylation of Vault Noncoding RNA Determines Its Processing into Regulatory Small RNAs. <i>Cell Reports</i> , 2013, 4, 255-261.	6.4	448
6	Stem cell function and stress response are controlled by protein synthesis. <i>Nature</i> , 2016, 534, 335-340.	27.8	345
7	RNA modifications regulating cell fate in cancer. <i>Nature Cell Biology</i> , 2019, 21, 552-559.	10.3	257
8	Stem Cell Depletion Through Epidermal Deletion of Rac1. <i>Science</i> , 2005, 309, 933-935.	12.6	243
9	The RNA Methyltransferase Misu (NSun2) Mediates Myc-Induced Proliferation and Is Upregulated in Tumors. <i>Current Biology</i> , 2006, 16, 971-981.	3.9	229
10	RNA modifications: what have we learned and where are we headed?. <i>Nature Reviews Genetics</i> , 2016, 17, 365-372.	16.3	215
11	Characterizing 5-methylcytosine in the mammalian epitranscriptome. <i>Genome Biology</i> , 2013, 14, 215.	9.6	204
12	Whole exome sequencing identifies a splicing mutation in <i>NSUN2</i> as a cause of a Dubowitz-like syndrome. <i>Journal of Medical Genetics</i> , 2012, 49, 380-385.	3.2	198
13	Analysis of CLIP and iCLIP methods for nucleotide-resolution studies of protein-RNA interactions. <i>Genome Biology</i> , 2012, 13, R67.	9.6	195
14	Mutation in NSUN2, which Encodes an RNA Methyltransferase, Causes Autosomal-Recessive Intellectual Disability. <i>American Journal of Human Genetics</i> , 2012, 90, 856-863.	6.2	189
15	Deficient methylation and formylation of mt-tRNA ^{Met} wobble cytosine in a patient carrying mutations in NSUN3. <i>Nature Communications</i> , 2016, 7, 12039.	12.8	178
16	Evidence that Myc activation depletes the epidermal stem cell compartment by modulating adhesive interactions with the local microenvironment. <i>Development (Cambridge)</i> , 2003, 130, 2793-2808.	2.5	163
17	The RNA Methyltransferase Misu (NSun2) Poises Epidermal Stem Cells to Differentiate. <i>PLoS Genetics</i> , 2011, 7, e1002403.	3.5	160
18	MYC in mammalian epidermis: how can an oncogene stimulate differentiation?. <i>Nature Reviews Cancer</i> , 2008, 8, 234-242.	28.4	144

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19	Cytosine-5 RNA Methylation Regulates Neural Stem Cell Differentiation and Motility. <i>Stem Cell Reports</i> , 2017, 8, 112-124.	4.8	141
20	The Mouse Cytosine-5 RNA Methyltransferase NSun2 Is a Component of the Chromatoid Body and Required for Testis Differentiation. <i>Molecular and Cellular Biology</i> , 2013, 33, 1561-1570.	2.3	137
21	Regulation of Human Epidermal Stem Cell Proliferation and Senescence Requires Polycomb- Dependent and -Independent Functions of Cbx4. <i>Cell Stem Cell</i> , 2011, 9, 233-246.	11.1	128
22	The nucleolar RNA methyltransferase Misu (NSun2) is required for mitotic spindle stability. <i>Journal of Cell Biology</i> , 2009, 186, 27-40.	5.2	125
23	Characterization of Bipotential Epidermal Progenitors Derived from Human Sebaceous Gland: Contrasting Roles of c-Myc and β -Catenin. <i>Stem Cells</i> , 2008, 26, 1241-1252.	3.2	117
24	Myc regulates keratinocyte adhesion and differentiation via complex formation with Miz1. <i>Journal of Cell Biology</i> , 2006, 172, 139-149.	5.2	108
25	Role of RNA methyltransferases in tissue renewal and pathology. <i>Current Opinion in Cell Biology</i> , 2014, 31, 1-7.	5.4	105
26	Mitochondrial RNA modifications shape metabolic plasticity in metastasis. <i>Nature</i> , 2022, 607, 593-603.	27.8	102
27	Epithelial Defensins Impair Adenoviral Infection: Implication for Adenovirus-Mediated Gene Therapy. <i>Human Gene Therapy</i> , 1999, 10, 957-964.	2.7	100
28	Epidermal Stem Cells Are Defined by Global Histone Modifications that Are Altered by Myc-Induced Differentiation. <i>PLoS ONE</i> , 2007, 2, e763.	2.5	89
29	Cytosine-5 RNA methylation links protein synthesis to cell metabolism. <i>PLoS Biology</i> , 2019, 17, e3000297.	5.6	87
30	NSUN2 introduces 5-methylcytosines in mammalian mitochondrial tRNAs. <i>Nucleic Acids Research</i> , 2019, 47, 8720-8733.	14.5	84
31	Sequence- and structure-specific cytosine-5 mRNA methylation by NSUN6. <i>Nucleic Acids Research</i> , 2021, 49, 1006-1022.	14.5	83
32	Loss of 5-methylcytosine alters the biogenesis of vault-derived small RNAs to coordinate epidermal differentiation. <i>Nature Communications</i> , 2019, 10, 2550.	12.8	81
33	Genomic gain of 5p15 leads to over-expression of Misu (NSUN2) in breast cancer. <i>Cancer Letters</i> , 2010, 289, 71-80.	7.2	80
34	The histone methyltransferase Setd8 acts in concert with c-Myc and is required to maintain skin. <i>EMBO Journal</i> , 2012, 31, 616-629.	7.8	71
35	Post-transcriptional modifications in development and stem cells. <i>Development (Cambridge)</i> , 2016, 143, 3871-3881.	2.5	66
36	Mitochondrial haplotypes and the New Zealand origin of clonal European <i>Potamopyrgus</i> , an invasive aquatic snail. <i>Molecular Ecology</i> , 2005, 14, 2465-2473.	3.9	57

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37	The opposing transcriptional functions of Sin3a and c-Myc are required to maintain tissue homeostasis. <i>Nature Cell Biology</i> , 2011, 13, 1395-1405.	10.3	57
38	Expression of human β -defensin-1 promotes differentiation of keratinocytes. <i>Journal of Molecular Medicine</i> , 2001, 79, 275-282.	3.9	55
39	Posttranscriptional methylation of transfer and ribosomal RNA in stress response pathways, cell differentiation, and cancer. <i>Current Opinion in Oncology</i> , 2016, 28, 65-71.	2.4	51
40	Codon usage optimization in pluripotent embryonic stem cells. <i>Genome Biology</i> , 2019, 20, 119.	8.8	43
41	Chromatin regulators in mammalian epidermis. <i>Seminars in Cell and Developmental Biology</i> , 2012, 23, 897-905.	5.0	36
42	Noncanonical functions of the serine-arginine-rich splicing factor (SR) family of proteins in development and disease. <i>BioEssays</i> , 2021, 43, e2000242.	2.5	34
43	Expression of Human Beta Defensin (HBD-1 and HBD-2) mRNA in Nasal Epithelia of Adult Cystic Fibrosis Patients, Healthy Individuals, and Individuals with Acute Cold. <i>Respiration</i> , 2002, 69, 46-51.	2.6	33
44	Stem cells in ectodermal development. <i>Journal of Molecular Medicine</i> , 2012, 90, 783-790.	3.9	24
45	Positioning Europe for the EPITRANSCRIPTOMICS challenge. <i>RNA Biology</i> , 2018, 15, 1-3.	3.1	18
46	Genetically Induced Cell Death in Bulge Stem Cells Reveals Their Redundancy for Hair and Epidermal Regeneration. <i>Stem Cells</i> , 2015, 33, 988-998.	3.2	13
47	CONCUR: quick and robust calculation of codon usage from ribosome profiling data. <i>Bioinformatics</i> , 2021, 37, 717-719.	4.1	5
48	RN7SK small nuclear RNA controls bidirectional transcription of highly expressed gene pairs in skin. <i>Nature Communications</i> , 2021, 12, 5864.	12.8	5
49	Considerations for skin carcinogenesis experiments using inducible transgenic mouse models. <i>BMC Research Notes</i> , 2018, 11, 67.	1.4	3
50	RNA Methylation in the Control of Stem Cell Activity and Epidermal Differentiation. <i>Contributions To Management Science</i> , 2018, , 215-229.	0.5	1
51	The RNA Methyltransferase Misu (NSun2) Mediates Myc-Induced Proliferation and Is Upregulated in Tumors. <i>Current Biology</i> , 2007, 17, 2002.	3.9	0
52	Regulation of Human Epidermal Stem Cell Proliferation and Senescence Requires Polycomb- Dependent and -Independent Functions of Cbx4. <i>Cell Stem Cell</i> , 2011, 9, 486.	11.1	0
53	Die Bedeutung der Zelladhäsionsmoleküle für die Struktur der Epidermis und Biorhythmik. <i>Fortschritte Der Praktischen Dermatologie Und Venerologie</i> , 2007, , 26-29.	0.0	0