Eran Meshorer

List of Publications by Year in Descending Order

106 papers	6,956 citations	37 h-index	83 g-index
118 ext. papers	8,046 ext. citations	13.5 avg, IF	5.95 L-index

#	Paper	IF	Citations
106	Can1 smell the virus: SARS-CoV-2, chromatin organization, and anosmia.. *Developmental Cell*, **2022**, 57, 1081-1082	10.2	1
105	Identifying regulators of parental imprinting by CRISPR/Cas9 screening in haploid human embryonic stem cells. *Nature Communications*, **2021**, 12, 6718	17.4	1
104	CloneSeq: A highly sensitive analysis platform for the characterization of 3D-cultured single-cell-derived clones. *Developmental Cell*, **2021**, 56, 1804-1817.e7	10.2	1
103	AUTS2 isoforms control neuronal differentiation. *Molecular Psychiatry*, **2021**, 26, 666-681	15.1	17
102	Organization of the Pluripotent Genome. *Cold Spring Harbor Perspectives in Biology*, **2021**, 13,	10.2	3
101	Mesoscale Modeling and Single-Nucleosome Tracking Reveal Remodeling of Clutch Folding and Dynamics in Stem Cell Differentiation. *Cell Reports*, **2021**, 34, 108614	10.6	14
100	Pluripotent stem cell-derived models of neurological diseases reveal early transcriptional heterogeneity. *Genome Biology*, **2021**, 22, 73	18.3	0
99	The upstream 5Ssplice site remains associated to the transcription machinery during intron synthesis. *Nature Communications*, **2021**, 12, 4545	17.4	1
98	Embryonic Stem Cell Differentiation Is Regulated by SET through Interactions with p53 and Catenin. *Stem Cell Reports*, **2020**, 15, 1260-1274	8	3
97	The Chromatin Regulator ZMYM2 Restricts Human Pluripotent Stem Cell Growth and Is Essential for Teratoma Formation. *Stem Cell Reports*, **2020**, 15, 1275-1286	8	3
96	Dppa2 and Dppa4 safeguard bivalent chromatin in order to establish a pluripotent epigenome. *Nature Structural and Molecular Biology*, **2020**, 27, 685-686	17.6	5
95	Harnessing epigenetics to study human evolution. *Current Opinion in Genetics and Development*, **2020**, 62, 23-29	4.9	0
94	Histone H1 eviction by the histone chaperone SET reduces cell survival following DNA damage. *Journal of Cell Science*, **2020**, 133,	5.3	6
93	Differential DNA methylation of vocal and facial anatomy genes in modern humans. *Nature Communications*, **2020**, 11, 1189	17.4	27
92	Transcription Factor Binding in Embryonic Stem Cells Is Constrained by DNA Sequence Repeat Symmetry. *Biophysical Journal*, **2020**, 118, 2015-2026	2.9	3
91	Chromatin and Nuclear Architecture in Stem Cells. *Stem Cell Reports*, **2020**, 15, 1155-1157	8	0
90	Chromatin plasticity in pluripotent and cancer stem cells **2020**, 207-230		

89	Progerin-Induced Transcriptional Changes in Huntington's Disease Human Pluripotent Stem Cell-Derived Neurons. *Molecular Neurobiology*, **2020**, 57, 1768-1777	6.2	10
88	Vimentin protects differentiating stem cells from stress. *Scientific Reports*, **2020**, 10, 19525	4.9	6
87	A Parkinson's disease CircRNAs Resource reveals a link between circSLC8A1 and oxidative stress. *EMBO Molecular Medicine*, **2020**, 12, e11942	12	38
86	Glioblastoma initiating cells are sensitive to histone demethylase inhibition due to epigenetic deregulation. *International Journal of Cancer*, **2020**, 146, 1281-1292	7.5	9
85	Reconstructing Denisovan Anatomy Using DNA Methylation Maps. *Cell*, **2019**, 179, 180-192.e10	56.2	23
84	Open Chromatin, Epigenetic Plasticity, and Nuclear Organization in Pluripotency. *Developmental Cell*, **2019**, 48, 135-150	10.2	46
83	Forward and Reverse Epigenomics in Embryonic Stem Cells **2019**, 2269-2288		
82	Predicted Archaic 3D Genome Organization Reveals Genes Related to Head and Spinal Cord Separating Modern from Archaic Humans. *Cells*, **2019**, 9,	7.9	2
81	Open chromatin structure in PolyQ disease-related genes: a potential mechanism for CAG repeat expansion in the normal human population. *NAR Genomics and Bioinformatics*, **2019**, 1, e3	3.7	5
80	The Princess and the P: Pluripotent Stem Cells and P-Bodies. *Cell Stem Cell*, **2019**, 25, 589-591	18	0
79	Spironolactone inhibits the growth of cancer stem cells by impairing DNA damage response. *Oncogene*, **2019**, 38, 3103-3118	9.2	14
78	PARP1-dependent eviction of the linker histone H1 mediates immediate early gene expression during neuronal activation. *Journal of Cell Biology*, **2018**, 217, 473-481	7.3	14
77	Alternative SET/TAFI Promoters Regulate Embryonic Stem Cell Differentiation. *Stem Cell Reports*, **2017**, 9, 1291-1303	8	13
76	An Endogenously Tagged Fluorescent Fusion Protein Library in Mouse Embryonic Stem Cells. *Stem Cell Reports*, **2017**, 9, 1304-1314	8	13
75	A hyperdynamic H3.3 nucleosome marks promoter regions in pluripotent embryonic stem cells. *Nucleic Acids Research*, **2017**, 45, 12181-12194	20.1	17
74	Forward and Reverse Epigenomics in Embryonic Stem Cells **2017**, 1-20		
73	Epigenetics in Development, Differentiation and Reprogramming **2016**, 421-448		
72	Epigenetics: It's Getting Old. Past Meets Future in Paleoepigenetics. *Trends in Ecology and Evolution* , **2016**, 31, 290-300	10.9	41

71	Systematic identification of gene family regulators in mouse and human embryonic stem cells. *Nucleic Acids Research*, **2016**, 44, 4080-9	20.1	9
70	The linker histone H1.0 generates epigenetic and functional intratumor heterogeneity. *Science*, **2016**, 353,	33.3	101
69	Glycolysis-mediated changes in acetyl-CoA and histone acetylation control the early differentiation of embryonic stem cells. *Cell Metabolism*, **2015**, 21, 392-402	24.6	399
68	Differential association of chromatin proteins identifies BAF60a/SMARCD1 as a regulator of embryonic stem cell differentiation. *Cell Reports*, **2015**, 10, 2019-31	10.6	36
67	HP1 is involved in regulating the global impact of DNA methylation on alternative splicing. *Cell Reports*, **2015**, 10, 1122-34	10.6	139
66	Chromatin remodeling and bivalent histone modifications in embryonic stem cells. *EMBO Reports*, **2015**, 16, 1609-19	6.5	135
65	BindDB: An Integrated Database and Webtool Platform for "Reverse-ChIP" Epigenomic Analysis. *Cell Stem Cell*, **2015**, 17, 647-648	18	20
64	Heterochromatin Protein 1 (HP1) has distinct functions and distinct nuclear distribution in pluripotent versus differentiated cells. *Genome Biology*, **2015**, 16, 213	18.3	42
63	SF3B1 association with chromatin determines splicing outcomes. *Cell Reports*, **2015**, 11, 618-29	10.6	73
62	Reconstructing the DNA methylation maps of the Neandertal and the Denisovan. *Science*, **2014**, 344, 523-7	33.3	142
61	Higher chromatin mobility supports totipotency and precedes pluripotency in vivo. *Genes and Development*, **2014**, 28, 1042-7	12.6	107
60	Genes related to differentiation are correlated with the gene regulatory network structure. *Bioinformatics*, **2014**, 30, 406-13	7.2	3
59	Asynchronous transcriptional silencing of individual retroviral genomes in embryonic cells. *Retrovirology*, **2014**, 11, 31	3.6	6
58	Elimination of undifferentiated cancer cells by pluripotent stem cell inhibitors. *Journal of Molecular Cell Biology*, **2014**, 6, 267-9	6.3	11
57	Snf2h-mediated chromatin organization and histone H1 dynamics govern cerebellar morphogenesis and neural maturation. *Nature Communications*, **2014**, 5, 4181	17.4	55
56	PAX6 regulates melanogenesis in the retinal pigmented epithelium through feed-forward regulatory interactions with MITF. *PLoS Genetics*, **2014**, 10, e1004360	6	58
55	A high-throughput chemical screen with FDA approved drugs reveals that the antihypertensive drug Spironolactone impairs cancer cell survival by inhibiting homology directed repair. *Nucleic Acids Research*, **2014**, 42, 5689-701	20.1	28
54	Transcription factors bind negatively selected sites within human mtDNA genes. *Genome Biology and Evolution*, **2014**, 6, 2634-46	3.9	36

53	Measuring the dynamics of chromatin proteins during differentiation. *Methods in Molecular Biology*, **2013**, 1042, 173-80	1.4	4
52	Multilayered chromatin analysis reveals E2f, Smad and Zfx as transcriptional regulators of histones. *Nature Structural and Molecular Biology*, **2013**, 20, 119-26	17.6	34
51	HMGN1 modulates nucleosome occupancy and DNase I hypersensitivity at the CpG island promoters of embryonic stem cells. *Molecular and Cellular Biology*, **2013**, 33, 3377-89	4.8	32
50	Non-polyadenylated transcription in embryonic stem cells reveals novel non-coding RNA related to pluripotency and differentiation. *Nucleic Acids Research*, **2013**, 41, 6300-15	20.1	22
49	The HDAC interaction network. *Molecular Systems Biology*, **2013**, 9, 671	12.2	17
48	SyStem cell biology. *Systems Biomedicine (Austin, Tex)*, **2013**, 1, 2-4		1
47	Systems analysis utilising pathway interactions identifies sonic hedgehog pathway as a primary biomarker and oncogenic target in hepatocellular carcinoma. *IET Systems Biology*, **2013**, 7, 243-51	1.4	4
46	Stress-induced epigenetic transcriptional memory of acetylcholinesterase by HDAC4. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, E3687-95	11.5	86
45	Elucidating the temporal dynamics of chromatin-associated protein release upon DNA digestion by quantitative proteomic approach. *Journal of Proteomics*, **2012**, 75, 5493-506	3.9	14
44	Concise review: chromatin and genome organization in reprogramming. *Stem Cells*, **2012**, 30, 1793-9	5.8	22
43	Chromatin immunoprecipitation in mouse hippocampal cells and tissues. *Methods in Molecular Biology*, **2012**, 809, 353-64	1.4	22
42	Live imaging of induced and controlled DNA double-strand break formation reveals extremely low repair by homologous recombination in human cells. *Oncogene*, **2012**, 31, 3495-504	9.2	35
41	Histone modifications and lamin A regulate chromatin protein dynamics in early embryonic stem cell differentiation. *Nature Communications*, **2012**, 3, 910	17.4	107
40	Polyglutamine (polyQ) disorders: the chromatin connection. *Nucleus*, **2012**, 3, 433-41	3.9	27
39	Systematic determination of replication activity type highlights interconnections between replication, chromatin structure and nuclear localization. *PLoS ONE*, **2012**, 7, e48986	3.7	11
38	Residual expression of reprogramming factors affects the transcriptional program and epigenetic signatures of induced pluripotent stem cells. *PLoS ONE*, **2012**, 7, e51711	3.7	39
37	Nuclear visions enhanced: chromatin structure, organization and dynamics. *EMBO Reports*, **2011**, 12, 748-59		
36	Photobleaching assays (FRAP & FLIP) to measure chromatin protein dynamics in living embryonic stem cells. *Journal of Visualized Experiments*, **2011**,	1.6	15

35	Open chromatin in pluripotency and reprogramming. *Nature Reviews Molecular Cell Biology*, **2011**, 12, 36-47	48.7	408
34	Pluripotency-related, valproic acid (VPA)-induced genome-wide histone H3 lysine 9 (H3K9) acetylation patterns in embryonic stem cells. *Journal of Biological Chemistry*, **2011**, 286, 35977-35988	5.4	61
33	Global epigenetic changes during somatic cell reprogramming to iPS cells. *Journal of Molecular Cell Biology*, **2011**, 3, 341-50	6.3	99
32	H3K9 histone acetylation predicts pluripotency and reprogramming capacity of ES cells. *Nucleus*, **2011**, 2, 300-9	3.9	63
31	The silence of the LADs: dynamic genome-lamina interactions during ESC differentiation. *Cell Stem Cell*, **2010**, 6, 495-7	18	7
30	Chromatin plasticity and genome organization in pluripotent embryonic stem cells. *Current Opinion in Cell Biology*, **2010**, 22, 334-41	9	107
29	Chromatin plasticity in pluripotent cells. *Essays in Biochemistry*, **2010**, 48, 245-62	7.6	32
28	Stem cells do play with dice: a statistical physics view of transcription. *Cell Cycle*, **2009**, 8, 43-8	4.7	16
27	Transcriptional competence in pluripotency. *Genes and Development*, **2009**, 23, 2793-8	12.6	27
26	Nuclear lamins: key regulators of nuclear structure and activities. *Journal of Cellular and Molecular Medicine*, **2009**, 13, 1059-85	5.6	184
25	Chd1 regulates open chromatin and pluripotency of embryonic stem cells. *Nature*, **2009**, 460, 863-8	50.4	406
24	Chromatin organization marks exon-intron structure. *Nature Structural and Molecular Biology*, **2009**, 16, 990-5	17.6	469
23	Nuclear lamins: key regulators of nuclear structure and activities **2009**, 13, 1059		1
22	Global transcription in pluripotent embryonic stem cells. *Cell Stem Cell*, **2008**, 2, 437-47	18	503
21	Chromatin and nuclear architecture in the nervous system. *Trends in Neurosciences*, **2008**, 31, 343-52	13.3	54
20	Eran Meshorer: getting a chromatin perspective. Interview by Caitlin Sedwick. *Journal of Cell Biology*, **2008**, 182, 618-9	7.3	
19	Gone with the Wnt/Notch: stem cells in laminopathies, progeria, and aging. *Journal of Cell Biology*, **2008**, 181, 9-13	7.3	70
18	Gone with the Wnt/Notch: stem cells in laminopathies, progeria, and aging. *Journal of Experimental Medicine*, **2008**, 205, i11-i11	16.6	

17	Chronic cholinergic imbalances promote brain diffusion and transport abnormalities. *FASEB Journal* , **2006**, 20, 2425-2425	0.9	
16	Hyperdynamic plasticity of chromatin proteins in pluripotent embryonic stem cells. *Developmental Cell*, **2006**, 10, 105-16	10.2	807
15	Virtues and woes of AChE alternative splicing in stress-related neuropathologies. *Trends in Neurosciences*, **2006**, 29, 216-24	13.3	152
14	Iran is sixth, not second, in Middle East publication list. *Nature*, **2006**, 443, 271	50.4	
13	Chromatin in pluripotent embryonic stem cells and differentiation. *Nature Reviews Molecular Cell Biology*, **2006**, 7, 540-6	48.7	553
12	Splicing misplaced. *Cell*, **2005**, 122, 317-8	56.2	14
11	SC35 promotes sustainable stress-induced alternative splicing of neuronal acetylcholinesterase mRNA. *Molecular Psychiatry*, **2005**, 10, 985-97	15.1	74
10	Chronic cholinergic imbalances promote brain diffusion and transport abnormalities. *FASEB Journal* , **2005**, 19, 910-22	0.9	33
9	Combinatorial complexity of 5Salternative acetylcholinesterase transcripts and protein products. *Journal of Biological Chemistry*, **2004**, 279, 29740-51	5.4	93
8	Pre-mRNA splicing modulations in senescence. *Aging Cell*, **2002**, 1, 10-6	9.9	64
7	Alternative splicing and neuritic mRNA translocation under long-term neuronal hypersensitivity. *Science*, **2002**, 295, 508-12	33.3	208
6	Defects in pre-mRNA processing as causes of and predisposition to diseases. *DNA and Cell Biology*, **2002**, 21, 803-18	3.6	71
5	Synaptogenesis and myopathy under acetylcholinesterase overexpression. *Journal of Molecular Neuroscience*, **2000**, 14, 93-105	3.3	37
4	Transition from anaerobic to aerobic growth conditions for the sulfate-reducing bacterium Desulfovibrio oxyclinae results in flocculation. *Applied and Environmental Microbiology*, **2000**, 66, 5005-12	4.8	53
3	Genes Affecting Vocal and Facial Anatomy Went Through Extensive Regulatory Divergence in Modern Humans		7
2	Large-scale implementation of pooled RNA-extraction and RT-PCR for SARS-CoV-2 detection		8
1	Impaired activation of Transposable Elements in SARS-CoV-2 infection		2