Marcus Buschbeck

List of Publications by Year
in descending order

66 papers	3,042 citations	147566 31 h-index	174990 52 g-index
71 all docs	71 docs citations	71 times ranked	5295 citing authors

#	Article	IF	Citations
1	Evolution, structure and function of divergent macroH2A1 splice isoforms. Seminars in Cell and Developmental Biology, 2023, 135, 43-49.	2.3	11
2	PLCG1 is required for AML1-ETO leukemia stem cell self-renewal. Blood, 2022, 139, 1080-1097.	0.6	16
3	Histone Modifications and Their Targeting in Lymphoid Malignancies. International Journal of Molecular Sciences, 2022, 23, 253.	1.8	5
4	3D chromatin remodelling in the germ line modulates genome evolutionary plasticity. Nature Communications, 2022, 13, 2608.	5.8	10
5	MacroH2As regulate enhancer-promoter contacts affecting enhancer activity and sensitivity to inflammatory cytokines. Cell Reports, 2022, 39, 110988.	2.9	5
6	Epigenetics in a Spectrum of Myeloid Diseases and Its Exploitation for Therapy. Cancers, 2021, 13, 1746.	1.7	7
7	Poly(ADP-ribose) binding and macroH2A mediate recruitment and functions of KDM5A at DNA lesions. Journal of Cell Biology, 2021, 220, .	2.3	17
8	Disruption of paternal circadian rhythm affects metabolic health in male offspring via nongerm cell factors. Science Advances, 2021, 7, .	4.7	11
9	The Role of MacroH2A Histone Variants in Cancer. Cancers, 2021, 13, 3003.	1.7	21
10	The Histone Variant MacroH2A1 Impacts Circadian Gene Expression and Cell Phenotype in an In Vitro Model of Hepatocellular Carcinoma. Biomedicines, 2021, 9, 1057.	1.4	2
11	Inhibition of CBP synergizes with the RNA-dependent mechanisms of Azacitidine by limiting protein synthesis. Nature Communications, 2021, 12, 6060.	5.8	12
12	Divergent leukaemia subclones as cellular models for testing vulnerabilities associated with gains in chromosomes 7, 8 or 18. Scientific Reports, 2021, 11, 21145.	1.6	0
13	The 2021 FASEB science research conference on NAD metabolism and signaling. Aging, 2021, 13, 24924-24930.	1.4	1
14	Evolution of a histone variant involved in compartmental regulation of NAD metabolism. Nature Structural and Molecular Biology, 2021, 28, 1009-1019.	3.6	7
15	SirT7 auto-ADP-ribosylation regulates glucose starvation response through mH2A1. Science Advances, 2020, 6, eaaz2590.	4.7	33
16	The Histone Variant MacroH2A1 Regulates Key Genes for Myogenic Cell Fusion in a Splice-Isoform Dependent Manner. Cells, 2020, 9, 1109.	1.8	9
17	The taming of PARP1 and its impact on NAD+ metabolism. Molecular Metabolism, 2020, 38, 100950.	3.0	37
18	Deficiency and haploinsufficiency of histone macroH2A1.1 in mice recapitulate hematopoietic defects of human myelodysplastic syndrome. Clinical Epigenetics, 2019, 11, 121.	1.8	21

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19	Histone variant MacroH2A1 is downregulated in prostate cancer and influences malignant cell phenotype. Cancer Cell International, 2019, 19, 112.	1.8	13
20	Induction of cancer cell stemness by depletion of macrohistone H2A1 in hepatocellular carcinoma. Hepatology, 2018, 67, 636-650.	3.6	63
21	DNA methylation profile in chronic myelomonocytic leukemia associates with distinct clinical, biological and genetic features. Epigenetics, 2018, 13, 8-18.	1.3	14
22	The MacroH2A1.1 â€" PARP1 Axis at the Intersection Between Stress Response and Metabolism. Frontiers in Genetics, 2018, 9, 417.	1.1	16
23	Epigenetic-Transcriptional Regulation of Fatty Acid Metabolism and Its Alterations in Leukaemia. Frontiers in Genetics, 2018, 9, 405.	1.1	25
24	MacroH2A histone variants limit chromatin plasticity through two distinct mechanisms. EMBO Reports, 2018, 19, .	2.0	60
25	Histone variant macroH2A1 rewires carbohydrate and lipid metabolism of hepatocellular carcinoma cells towards cancer stem cells. Epigenetics, 2018, 13, 829-845.	1.3	40
26	Direct modulation of the bone marrow mesenchymal stromal cell compartment by azacitidine enhances healthy hematopoiesis. Blood Advances, 2018, 2, 3447-3461.	2.5	31
27	Post-Translational Modifications of H2A Histone Variants and Their Role in Cancer. Cancers, 2018, 10, 59.	1.7	70
28	A novel long non-coding RNA from NBL2 pericentromeric macrosatellite forms a perinucleolar aggregate structure in colon cancer. Nucleic Acids Research, 2018, 46, 5504-5524.	6.5	30
29	Variants of core histones and their roles in cell fate decisions, development and cancer. Nature Reviews Molecular Cell Biology, 2017, 18, 299-314.	16.1	269
30	MacroH2A histone variants maintain nuclear organization and heterochromatin architecture. Journal of Cell Science, 2017, 130, 1570-1582.	1.2	64
31	MacroH2A1.1 regulates mitochondrial respiration by limiting nuclear NAD+ consumption. Nature Structural and Molecular Biology, 2017, 24, 902-910.	3.6	54
32	Immunophenotypic, cytogenetic, and mutational characterization of cell lines derived from myelodysplastic syndrome patients after progression to acute myeloid leukemia. Genes Chromosomes and Cancer, 2017, 56, 243-252.	1.5	10
33	Polycomb protein RING1A limits hematopoietic differentiation in myelodysplastic syndromes. Oncotarget, 2017, 8, 115002-115017.	0.8	6
34	regioneR: an R/Bioconductor package for the association analysis of genomic regions based on permutation tests. Bioinformatics, 2016, 32, 289-291.	1.8	403
35	A clinical-molecular update on azanucleoside-based therapy for the treatment of hematologic cancers. Clinical Epigenetics, 2016, 8, 71.	1.8	129
36	A cellular model reflecting the phenotypic heterogeneity of mutant <i>HRAS</i> driven squamous cell carcinoma. International Journal of Cancer, 2016, 139, 1106-1116.	2.3	14

#	Article	IF	Citations
37	Development Refractoriness of MLL-Rearranged Human B Cell Acute Leukemias to Reprogramming into Pluripotency. Stem Cell Reports, 2016, 7, 602-618.	2.3	38
38	Downregulation of the Deiminase PADI2 Is an Early Event in Colorectal Carcinogenesis and Indicates Poor Prognosis. Molecular Cancer Research, 2016, 14, 841-848.	1.5	38
39	DNA Hypomethylation and Histone Variant macroH2A1 Synergistically Attenuate Chemotherapy-Induced Senescence to Promote Hepatocellular Carcinoma Progression. Cancer Research, 2016, 76, 594-606.	0.4	76
40	Barcelona conference on epigenetics and cancer 2015: Coding and non-coding functions of the genome. Epigenetics, 2016, 11, 95-100.	1.3	3
41	Epo-induced erythroid maturation is dependent on PlcÎ³1 signaling. Cell Death and Differentiation, 2015, 22, 974-985.	5.0	30
42	A Cbx8-Containing Polycomb Complex Facilitates the Transition to Gene Activation during ES Cell Differentiation. PLoS Genetics, 2014, 10, e1004851.	1.5	59
43	macroH2A1 histone variant represses rDNA transcription. Nucleic Acids Research, 2014, 42, 181-192.	6.5	43
44	Macro domains as metabolite sensors on chromatin. Cellular and Molecular Life Sciences, 2013, 70, 1509-1524.	2.4	44
45	MacroH2A â€“ An epigenetic regulator of cancer. Cancer Letters, 2013, 336, 247-252.	3.2	55
46	Murine Cell Glycolipids Customization by Modular Expression of Glycosyltransferases. PLoS ONE, 2013, 8, e64728.	1.1	6
47	MacroH2A1 Regulates the Balance between Self-Renewal and Differentiation Commitment in Embryonic and Adult Stem Cells. Molecular and Cellular Biology, 2012, 32, 1442-1452.	1.1	86
48	MacroH2A in stem cells: a story beyond gene repression. Epigenomics, 2012, 4, 221-227.	1.0	35
49	E-box-independent regulation of transcription and differentiation by MYC. Nature Cell Biology, 2011, 13, 1443-1449.	4.6	37
50	Elongator: An Ancestral Complex Driving Transcription and Migration through Protein Acetylation. Journal of Biomedicine and Biotechnology, 2011, 2011, 1-8.	3.0	16
51	Approaching the molecular and physiological function of macroH2A variants. Epigenetics, 2010, 5, 118-123.	1.3	33
52	The histone variant macroH2A is an epigenetic regulator of key developmental genes. Nature Structural and Molecular Biology, 2009, 16, 1074-1079.	3.6	166
53	K313dup is a recurrent CEBPA mutation in de novo acute myeloid leukemia (AML). Annals of Hematology, 2008, 87, 819-827.	0.8	5
54	MBD3, a Component of the NuRD Complex, Facilitates Chromatin Alteration and Deposition of Epigenetic Marks. Molecular and Cellular Biology, 2008, 28, 5912-5923.	1.1	106

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55	PML4 induces differentiation by Myc destabilization. Oncogene, 2007, 26, 3415-3422.	2.6	35
56	Strategies to Overcome Resistance to Targeted Protein Kinase Inhibitors in??the Treatment of Cancer. Drugs in R and D, 2006, 7, 73-86.	1.1	23
57	The methyl-CpG binding protein MBD1 is required for PML-RARÂ function. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1400-1405.	3.3	93
58	Chromatin structure and epigenetics. Biochemical Pharmacology, 2006, 72, 1563-1569.	2.0	149
59	Ablâ€kinaseâ€sensitive levels of ERK5 and its intrinsic basal activity contribute to leukaemia cell survival. EMBO Reports, 2005, 6, 63-69.	2.0	35
60	Identification of a transcriptionally active hVH-5 pseudogene on 10q22.2. Cancer Genetics and Cytogenetics, 2005, 159, 155-159.	1.0	8
61	The Unique C-terminal Tail of the Mitogen-activated Protein Kinase ERK5 Regulates Its Activation and Nuclear Shuttling. Journal of Biological Chemistry, 2005, 280, 2659-2667.	1.6	105
62	Altered epigenetic signals in human disease. Cancer Biology and Therapy, 2004, 3, 831-837.	1.5	19
63	Negative Regulation of HER2 Signaling by the PEST-type Protein-tyrosine Phosphatase BDP1. Journal of Biological Chemistry, 2004, 279, 12110-12116.	1.6	47
64	Phosphotyrosine-specific Phosphatase PTP-SL Regulates the ERK5 Signaling Pathway. Journal of Biological Chemistry, 2002, 277, 29503-29509.	1.6	42
65	Stress stimuli increase calcium-induced arachidonic acid release through phosphorylation of cytosolic phospholipase A2. Biochemical Journal, 1999, 344, 359-366.	1.7	39
66	Stress stimuli increase calcium-induced arachidonic acid release through phosphorylation of cytosolic phospholipase A2. Biochemical Journal, 1999, 344, 359.	1.7	18