

Marcus Buschbeck

List of Publications by Year in descending order

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Version: 2024-02-01

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	regioneR: an R/Bioconductor package for the association analysis of genomic regions based on permutation tests. <i>Bioinformatics</i> , 2016, 32, 289-291.	1.8	403
2	Variants of core histones and their roles in cell fate decisions, development and cancer. <i>Nature Reviews Molecular Cell Biology</i> , 2017, 18, 299-314.	16.1	269
3	The histone variant macroH2A is an epigenetic regulator of key developmental genes. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 1074-1079.	3.6	166
4	Chromatin structure and epigenetics. <i>Biochemical Pharmacology</i> , 2006, 72, 1563-1569.	2.0	149
5	A clinical-molecular update on azanucleoside-based therapy for the treatment of hematologic cancers. <i>Clinical Epigenetics</i> , 2016, 8, 71.	1.8	129
6	MBD3, a Component of the NuRD Complex, Facilitates Chromatin Alteration and Deposition of Epigenetic Marks. <i>Molecular and Cellular Biology</i> , 2008, 28, 5912-5923.	1.1	106
7	The Unique C-terminal Tail of the Mitogen-activated Protein Kinase ERK5 Regulates Its Activation and Nuclear Shuttling. <i>Journal of Biological Chemistry</i> , 2005, 280, 2659-2667.	1.6	105
8	The methyl-CpG binding protein MBD1 is required for PML-RAR α function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1400-1405.	3.3	93
9	MacroH2A1 Regulates the Balance between Self-Renewal and Differentiation Commitment in Embryonic and Adult Stem Cells. <i>Molecular and Cellular Biology</i> , 2012, 32, 1442-1452.	1.1	86
10	DNA Hypomethylation and Histone Variant macroH2A1 Synergistically Attenuate Chemotherapy-Induced Senescence to Promote Hepatocellular Carcinoma Progression. <i>Cancer Research</i> , 2016, 76, 594-606.	0.4	76
11	Post-Translational Modifications of H2A Histone Variants and Their Role in Cancer. <i>Cancers</i> , 2018, 10, 59.	1.7	70
12	MacroH2A histone variants maintain nuclear organization and heterochromatin architecture. <i>Journal of Cell Science</i> , 2017, 130, 1570-1582.	1.2	64
13	Induction of cancer cell stemness by depletion of macrohistone H2A1 in hepatocellular carcinoma. <i>Hepatology</i> , 2018, 67, 636-650.	3.6	63
14	MacroH2A histone variants limit chromatin plasticity through two distinct mechanisms. <i>EMBO Reports</i> , 2018, 19, .	2.0	60
15	A Cbx8-Containing Polycomb Complex Facilitates the Transition to Gene Activation during ES Cell Differentiation. <i>PLoS Genetics</i> , 2014, 10, e1004851.	1.5	59
16	MacroH2A α An epigenetic regulator of cancer. <i>Cancer Letters</i> , 2013, 336, 247-252.	3.2	55
17	MacroH2A1.1 regulates mitochondrial respiration by limiting nuclear NAD ⁺ consumption. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 902-910.	3.6	54
18	Negative Regulation of HER2 Signaling by the PEST-type Protein-tyrosine Phosphatase BDP1. <i>Journal of Biological Chemistry</i> , 2004, 279, 12110-12116.	1.6	47

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19	Macro domains as metabolite sensors on chromatin. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 1509-1524.	2.4	44
20	macroH2A1 histone variant represses rDNA transcription. <i>Nucleic Acids Research</i> , 2014, 42, 181-192.	6.5	43
21	Phosphotyrosine-specific Phosphatase PTP-SL Regulates the ERK5 Signaling Pathway. <i>Journal of Biological Chemistry</i> , 2002, 277, 29503-29509.	1.6	42
22	Histone variant macroH2A1 rewires carbohydrate and lipid metabolism of hepatocellular carcinoma cells towards cancer stem cells. <i>Epigenetics</i> , 2018, 13, 829-845.	1.3	40
23	Stress stimuli increase calcium-induced arachidonic acid release through phosphorylation of cytosolic phospholipase A2. <i>Biochemical Journal</i> , 1999, 344, 359-366.	1.7	39
24	Development Refractoriness of MLL-Rearranged Human B Cell Acute Leukemias to Reprogramming into Pluripotency. <i>Stem Cell Reports</i> , 2016, 7, 602-618.	2.3	38
25	Downregulation of the Deiminase PADI2 Is an Early Event in Colorectal Carcinogenesis and Indicates Poor Prognosis. <i>Molecular Cancer Research</i> , 2016, 14, 841-848.	1.5	38
26	E-box-independent regulation of transcription and differentiation by MYC. <i>Nature Cell Biology</i> , 2011, 13, 1443-1449.	4.6	37
27	The taming of PARP1 and its impact on NAD ⁺ metabolism. <i>Molecular Metabolism</i> , 2020, 38, 100950.	3.0	37
28	Abl kinase-sensitive levels of ERK5 and its intrinsic basal activity contribute to leukaemia cell survival. <i>EMBO Reports</i> , 2005, 6, 63-69.	2.0	35
29	PML4 induces differentiation by Myc destabilization. <i>Oncogene</i> , 2007, 26, 3415-3422.	2.6	35
30	MacroH2A in stem cells: a story beyond gene repression. <i>Epigenomics</i> , 2012, 4, 221-227.	1.0	35
31	Approaching the molecular and physiological function of macroH2A variants. <i>Epigenetics</i> , 2010, 5, 118-123.	1.3	33
32	Sirt7 auto-ADP-ribosylation regulates glucose starvation response through mH2A1. <i>Science Advances</i> , 2020, 6, eaaz2590.	4.7	33
33	Direct modulation of the bone marrow mesenchymal stromal cell compartment by azacitidine enhances healthy hematopoiesis. <i>Blood Advances</i> , 2018, 2, 3447-3461.	2.5	31
34	Epo-induced erythroid maturation is dependent on Plc β 1 signaling. <i>Cell Death and Differentiation</i> , 2015, 22, 974-985.	5.0	30
35	A novel long non-coding RNA from NBL2 pericentromeric macrosatellite forms a perinucleolar aggregate structure in colon cancer. <i>Nucleic Acids Research</i> , 2018, 46, 5504-5524.	6.5	30
36	Epigenetic-Transcriptional Regulation of Fatty Acid Metabolism and Its Alterations in Leukaemia. <i>Frontiers in Genetics</i> , 2018, 9, 405.	1.1	25

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37	Strategies to Overcome Resistance to Targeted Protein Kinase Inhibitors in the Treatment of Cancer. <i>Drugs in Research and Development</i> , 2006, 7, 73-86.	1.1	23
38	Deficiency and haploinsufficiency of histone macroH2A1.1 in mice recapitulate hematopoietic defects of human myelodysplastic syndrome. <i>Clinical Epigenetics</i> , 2019, 11, 121.	1.8	21
39	The Role of MacroH2A Histone Variants in Cancer. <i>Cancers</i> , 2021, 13, 3003.	1.7	21
40	Altered epigenetic signals in human disease. <i>Cancer Biology and Therapy</i> , 2004, 3, 831-837.	1.5	19
41	Stress stimuli increase calcium-induced arachidonic acid release through phosphorylation of cytosolic phospholipase A2. <i>Biochemical Journal</i> , 1999, 344, 359.	1.7	18
42	Poly(ADP-ribose) binding and macroH2A mediate recruitment and functions of KDM5A at DNA lesions. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	17
43	Elongator: An Ancestral Complex Driving Transcription and Migration through Protein Acetylation. <i>Journal of Biomedicine and Biotechnology</i> , 2011, 2011, 1-8.	3.0	16
44	The MacroH2A1.1 - PARP1 Axis at the Intersection Between Stress Response and Metabolism. <i>Frontiers in Genetics</i> , 2018, 9, 417.	1.1	16
45	PLCG1 is required for AML1-ETO leukemia stem cell self-renewal. <i>Blood</i> , 2022, 139, 1080-1097.	0.6	16
46	A cellular model reflecting the phenotypic heterogeneity of mutant <i>HRAS</i> driven squamous cell carcinoma. <i>International Journal of Cancer</i> , 2016, 139, 1106-1116.	2.3	14
47	DNA methylation profile in chronic myelomonocytic leukemia associates with distinct clinical, biological and genetic features. <i>Epigenetics</i> , 2018, 13, 8-18.	1.3	14
48	Histone variant MacroH2A1 is downregulated in prostate cancer and influences malignant cell phenotype. <i>Cancer Cell International</i> , 2019, 19, 112.	1.8	13
49	Inhibition of CBP synergizes with the RNA-dependent mechanisms of Azacitidine by limiting protein synthesis. <i>Nature Communications</i> , 2021, 12, 6060.	5.8	12
50	Disruption of paternal circadian rhythm affects metabolic health in male offspring via nongerm cell factors. <i>Science Advances</i> , 2021, 7, .	4.7	11
51	Evolution, structure and function of divergent macroH2A1 splice isoforms. <i>Seminars in Cell and Developmental Biology</i> , 2023, 135, 43-49.	2.3	11
52	Immunophenotypic, cytogenetic, and mutational characterization of cell lines derived from myelodysplastic syndrome patients after progression to acute myeloid leukemia. <i>Genes Chromosomes and Cancer</i> , 2017, 56, 243-252.	1.5	10
53	3D chromatin remodelling in the germ line modulates genome evolutionary plasticity. <i>Nature Communications</i> , 2022, 13, 2608.	5.8	10
54	The Histone Variant MacroH2A1 Regulates Key Genes for Myogenic Cell Fusion in a Splice-Isoform Dependent Manner. <i>Cells</i> , 2020, 9, 1109.	1.8	9

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55	Identification of a transcriptionally active hVH-5 pseudogene on 10q22.2. <i>Cancer Genetics and Cytogenetics</i> , 2005, 159, 155-159.	1.0	8
56	Epigenetics in a Spectrum of Myeloid Diseases and Its Exploitation for Therapy. <i>Cancers</i> , 2021, 13, 1746.	1.7	7
57	Evolution of a histone variant involved in compartmental regulation of NAD metabolism. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 1009-1019.	3.6	7
58	Murine Cell Glycolipids Customization by Modular Expression of Glycosyltransferases. <i>PLoS ONE</i> , 2013, 8, e64728.	1.1	6
59	Polycomb protein RING1A limits hematopoietic differentiation in myelodysplastic syndromes. <i>Oncotarget</i> , 2017, 8, 115002-115017.	0.8	6
60	K313dup is a recurrent CEBPA mutation in de novo acute myeloid leukemia (AML). <i>Annals of Hematology</i> , 2008, 87, 819-827.	0.8	5
61	Histone Modifications and Their Targeting in Lymphoid Malignancies. <i>International Journal of Molecular Sciences</i> , 2022, 23, 253.	1.8	5
62	MacroH2As regulate enhancer-promoter contacts affecting enhancer activity and sensitivity to inflammatory cytokines. <i>Cell Reports</i> , 2022, 39, 110988.	2.9	5
63	Barcelona conference on epigenetics and cancer 2015: Coding and non-coding functions of the genome. <i>Epigenetics</i> , 2016, 11, 95-100.	1.3	3
64	The Histone Variant MacroH2A1 Impacts Circadian Gene Expression and Cell Phenotype in an In Vitro Model of Hepatocellular Carcinoma. <i>Biomedicines</i> , 2021, 9, 1057.	1.4	2
65	The 2021 FASEB science research conference on NAD metabolism and signaling. <i>Aging</i> , 2021, 13, 24924-24930.	1.4	1
66	Divergent leukaemia subclones as cellular models for testing vulnerabilities associated with gains in chromosomes 7, 8 or 18. <i>Scientific Reports</i> , 2021, 11, 21145.	1.6	0