

Marianne G Rots

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

3,190
citations

172457

29
h-index

155660

55
g-index

56
all docs

56
docs citations

56
times ranked

5272
citing authors

#	ARTICLE	IF	CITATIONS
1	The timeline of epigenetic drug discovery: from reality to dreams. <i>Clinical Epigenetics</i> , 2019, 11, 174.	4.1	275
2	EpCAM in carcinogenesis: the good, the bad or the ugly. <i>Carcinogenesis</i> , 2010, 31, 1913-1921.	2.8	270
3	Writing of H3K4Me3 overcomes epigenetic silencing in a sustained but context-dependent manner. <i>Nature Communications</i> , 2016, 7, 12284.	12.8	195
4	Epigenetic reprogramming of cancer cells via targeted DNA methylation. <i>Epigenetics</i> , 2012, 7, 350-360.	2.7	189
5	Epigenetic Editing: targeted rewriting of epigenetic marks to modulate expression of selected target genes. <i>Nucleic Acids Research</i> , 2012, 40, 10596-10613.	14.5	150
6	Targeted silencing of the oncogenic transcription factor SOX2 in breast cancer. <i>Nucleic Acids Research</i> , 2012, 40, 6725-6740.	14.5	138
7	Targeted Methylation and Gene Silencing of VEGF-A in Human Cells by Using a Designed Dnmt3a-Dnmt3L Single-Chain Fusion Protein with Increased DNA Methylation Activity. <i>Journal of Molecular Biology</i> , 2013, 425, 479-491.	4.2	138
8	Induced DNA demethylation by targeting Ten-Eleven Translocation 2 to the human ICAM-1 promoter. <i>Nucleic Acids Research</i> , 2014, 42, 1563-1574.	14.5	132
9	Epigenetic editing of the Dlg4/PSD95 gene improves cognition in aged and Alzheimer's disease mice. <i>Brain</i> , 2017, 140, 3252-3268.	7.6	121
10	The influence of eukaryotic chromatin state on CRISPR-Cas9 editing efficiencies. <i>Current Opinion in Biotechnology</i> , 2019, 55, 68-73.	6.6	96
11	Mitochondrial epigenetics: an overlooked layer of regulation?. <i>Trends in Genetics</i> , 2015, 31, 353-356.	6.7	85
12	Therapeutic modulation of endogenous gene function by agents with designed DNA-sequence specificities. <i>Nucleic Acids Research</i> , 2003, 31, 6064-6078.	14.5	84
13	Towards Sustained Silencing of HER2/neu in Cancer By Epigenetic Editing. <i>Molecular Cancer Research</i> , 2013, 11, 1029-1039.	3.4	72
14	Local chromatin microenvironment determines DNMT activity: from DNA methyltransferase to DNA demethylase or DNA dehydroxymethylase. <i>Epigenetics</i> , 2015, 10, 671-676.	2.7	72
15	Experimental mitochondria-targeted DNA methylation identifies GpC methylation, not CpG methylation, as potential regulator of mitochondrial gene expression. <i>Scientific Reports</i> , 2017, 7, 177.	3.3	72
16	Regulation of mitochondrial gene expression the epigenetic enigma. <i>Frontiers in Bioscience - Landmark</i> , 2017, 22, 1099-1113.	3.0	69
17	Missing heritability: is the gap closing? An analysis of 32 complex traits in the Lifelines Cohort Study. <i>European Journal of Human Genetics</i> , 2017, 25, 877-885.	2.8	67
18	Engineering Zinc Finger Protein Transcription Factors: The Therapeutic Relevance of Switching Endogenous Gene Expression On or Off at Command. <i>Journal of Molecular Biology</i> , 2005, 354, 507-519.	4.2	55

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19	Advances of epigenetic editing. <i>Current Opinion in Chemical Biology</i> , 2020, 57, 75-81.	6.1	54
20	Epigenetic Editing: On the Verge of Reprogramming Gene Expression at Will. <i>Current Genetic Medicine Reports</i> , 2016, 4, 170-179.	1.9	52
21	Procollagen Lysyl Hydroxylase 2 Expression Is Regulated by an Alternative Downstream Transforming Growth Factor β -1 Activation Mechanism. <i>Journal of Biological Chemistry</i> , 2015, 290, 28465-28476.	3.4	48
22	Epigenetics: The neglected key to minimize learning and memory deficits in Down syndrome. <i>Neuroscience and Biobehavioral Reviews</i> , 2014, 45, 72-84.	6.1	47
23	Functional validation of putative tumor suppressor gene <i>C13ORF18</i> in cervical cancer by Artificial Transcription Factors. <i>Molecular Oncology</i> , 2013, 7, 669-679.	4.6	39
24	Epigenetic drugs: from chemistry via biology to medicine and back. <i>Clinical Epigenetics</i> , 2016, 8, 56.	4.1	39
25	Current and upcoming approaches to exploit the reversibility of epigenetic mutations in breast cancer. <i>Breast Cancer Research</i> , 2014, 16, 412.	5.0	38
26	Nrf2, the master redox switch: The Achilles' heel of ovarian cancer?. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2014, 1846, 494-509.	7.4	36
27	The potential for targeted rewriting of epigenetic marks in COPD as a new therapeutic approach. , 2018, 182, 1-14.		36
28	Targeted epigenetic editing of SPDEF reduces mucus production in lung epithelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 312, L334-L347.	2.9	35
29	Re-expression of Selected Epigenetically Silenced Candidate Tumor Suppressor Genes in Cervical Cancer by TET2-directed Demethylation. <i>Molecular Therapy</i> , 2016, 24, 536-547.	8.2	33
30	Epigenetic Regulation of S100A9 and S100A12 Expression in Monocyte-Macrophage System in Hyperglycemic Conditions. <i>Frontiers in Immunology</i> , 2020, 11, 1071.	4.8	32
31	Upregulation of endogenous ICAM β 1 reduces ovarian cancer cell growth in the absence of immune cells. <i>International Journal of Cancer</i> , 2014, 134, 280-290.	5.1	31
32	Prolonged re-expression of the hypermethylated gene <i>EPB41L3</i> using artificial transcription factors and epigenetic drugs. <i>Epigenetics</i> , 2015, 10, 384-396.	2.7	28
33	Engineering zinc finger protein transcription factors to downregulate the epithelial glycoprotein-2 promoter as a novel anti-cancer treatment. <i>Molecular Carcinogenesis</i> , 2007, 46, 391-401.	2.7	27
34	Targeted DNA Methylation by a DNA Methyltransferase Coupled to a Triple Helix Forming Oligonucleotide To Down-Regulate the Epithelial Cell Adhesion Molecule. <i>Bioconjugate Chemistry</i> , 2010, 21, 1239-1245.	3.6	25
35	Folic acid conjugates of a bleomycin mimic for selective targeting of folate receptor positive cancer cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 1922-1927.	2.2	25
36	Virus-host interplay in hepatitis B virus infection and epigenetic treatment strategies. <i>FEBS Journal</i> , 2017, 284, 3550-3572.	4.7	24

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37	Efficient Nuclear DNA Cleavage in Human Cancer Cells by Synthetic Bleomycin Mimics. <i>ACS Chemical Biology</i> , 2014, 9, 1044-1051.	3.4	23
38	Importance of Metal-Ion Exchange for the Biological Activity of Coordination Complexes of the Biomimetic Ligand N4Py. <i>Inorganic Chemistry</i> , 2018, 57, 7748-7756.	4.0	23
39	Epiproteome profiling of cadmium-transformed human bronchial epithelial cells by quantitative histone post-translational modification enzyme-linked immunosorbent assay. <i>Journal of Applied Toxicology</i> , 2018, 38, 888-895.	2.8	22
40	The past and presence of gene targeting: from chemicals and DNA via proteins to RNA. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170077.	4.0	20
41	Persistent downregulation of the pancarcinoma-associated epithelial cell adhesion molecule <i>CD151</i> via active intranuclear methylation. <i>International Journal of Cancer</i> , 2008, 123, 484-489.	5.1	19
42	Editing the Epigenome: Overview, Open Questions, and Directions of Future Development. <i>Methods in Molecular Biology</i> , 2018, 1767, 3-18.	0.9	19
43	Exploiting epigenetics for the treatment of inborn errors of metabolism. <i>Journal of Inherited Metabolic Disease</i> , 2020, 43, 63-70.	3.6	18
44	Targeting Nrf2 in healthy and malignant ovarian epithelial cells: Protection versus promotion. <i>Molecular Oncology</i> , 2015, 9, 1259-1273.	4.6	17
45	The Endothelium as a Target for Anti-Atherogenic Therapy: A Focus on the Epigenetic Enzymes EZH2 and SIRT1. <i>Journal of Personalized Medicine</i> , 2021, 11, 103.	2.5	16
46	A Role for MeCP2 in Switching Gene Activity via Chromatin Unfolding and HP1 Displacement. <i>PLoS ONE</i> , 2013, 8, e69347.	2.5	13
47	Step into the Groove: Engineered Transcription Factors as Modulators of Gene Expression. <i>Advances in Genetics</i> , 2006, 56, 131-161.	1.8	12
48	RASSF1C oncogene elicits amoeboid invasion, cancer stemness, and extracellular vesicle release via a SRC/Rho axis. <i>EMBO Journal</i> , 2021, 40, e107680.	7.8	12
49	TCTN2: a novel tumor marker with oncogenic properties. <i>Oncotarget</i> , 2017, 8, 95256-95269.	1.8	9
50	Rewriting DNA Methylation Signatures at Will: The Curable Genome Within Reach?. <i>Advances in Experimental Medicine and Biology</i> , 2016, 945, 475-490.	1.6	8
51	The Mitochondrial Epigenome: An Unexplored Avenue to Explain Unexplained Myopathies?. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2197.	4.1	7
52	Ubiquitin carboxyl-terminal hydrolase isozyme L1/UCHL1 suppresses epithelial-mesenchymal transition and is under-expressed in cadmium-transformed human bronchial epithelial cells. <i>Cell Biology and Toxicology</i> , 2021, 37, 497-513.	5.3	6
53	KRAB-Induced Heterochromatin Effectively Silences PLOD2 Gene Expression in Somatic Cells and Is Resilient to TGF β 1 Activation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3634.	4.1	6
54	Establishment of Cell Lines Stably Expressing dCas9-Fusions to Address Kinetics of Epigenetic Editing. <i>Methods in Molecular Biology</i> , 2018, 1767, 395-415.	0.9	3

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55	Re-expressing Epigenetically Silenced Genes by Inducing DNA Demethylation Through Targeting of Ten-Eleven Translocation 2 to Any Given Genomic Locus. <i>Methods in Molecular Biology</i> , 2017, 1654, 321-335.	0.9	2