Tomasz Jurkowski

List of Publications by Year in descending order

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46 papers	3,096 citations	201575 27 h-index	243529 44 g-index
50 all docs	50 docs citations	50 times ranked	4819 citing authors

#	Article	IF	Citations
1	Structure and Function of Mammalian DNA Methyltransferases. ChemBioChem, 2011, 12, 206-222.	1.3	561
2	Efficient targeted DNA methylation with chimeric dCas9â€“Dnmt3aâ€“Dnmt3L methyltransferase. Nucleic Acids Research, 2017, 45, 1703-1713.	6.5	224
3	Molecular signatures of plastic phenotypes in two eusocial insect species with simple societies. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13970-13975.	3.3	192
4	Bio-On-Magnetic-Beads (BOMB): Open platform for high-throughput nucleic acid extraction and manipulation. PLoS Biology, 2019, 17, e3000107.	2.6	168
5	Mechanism and biological role of Dnmt2 in Nucleic Acid Methylation. RNA Biology, 2017, 14, 1108-1123.	1.5	156
6	Human DNMT2 methylates tRNA^{Asp} molecules using a DNA methyltransferase-like catalytic mechanism. Rna, 2008, 14, 1663-1670.	1.6	153
7	DNA Methylation Analysis of Chromosome 21 Gene Promoters at Single Base Pair and Single Allele Resolution. PLoS Genetics, 2009, 5, e1000438.	1.5	143
8	Retinol and ascorbate drive erasure of epigenetic memory and enhance reprogramming to naÃ¯ve pluripotency by complementary mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12202-12207.	3.3	139
9	Targeted Methylation and Gene Silencing of VEGF-A in Human Cells by Using a Designed Dnmt3aâ€“Dnmt3L Single-Chain Fusion Protein with Increased DNA Methylation Activity. Journal of Molecular Biology, 2013, 425, 479-491.	2.0	138
10	On the Evolutionary Origin of Eukaryotic DNA Methyltransferases and Dnmt2. PLoS ONE, 2011, 6, e28104.	1.1	103
11	Hit-and-run epigenetic editing prevents senescence entry in primary breast cells from healthy donors. Nature Communications, 2017, 8, 1450.	5.8	86
12	Mutational Analysis of the Catalytic Domain of the Murine Dnmt3a DNA-(cytosine) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td (C5)-me	2.0	83
13	H3K14ac is linked to methylation of H3K9 by the triple Tudor domain of SETDB1. Nature Communications, 2017, 8, 2057.	5.8	72
14	Pmt1, a Dnmt2 homolog in Schizosaccharomyces pombe, mediates tRNA methylation in response to nutrient signaling. Nucleic Acids Research, 2012, 40, 11648-11658.	6.5	70
15	Regulation of DNA Methylation Patterns by CK2-Mediated Phosphorylation of Dnmt3a. Cell Reports, 2014, 8, 743-753.	2.9	66
16	Cytosine methylation of tRNA-Asp by DNMT2 has a role in translation of proteins containing poly-Asp sequences. Cell Discovery, 2015, 1, 15010.	3.1	63
17	Synthetic epigeneticsâ€”towards intelligent control of epigenetic states and cell identity. Clinical Epigenetics, 2015, 7, 18.	1.8	59
18	Bisulfite sequencing Data Presentation and Compilation (BDPC) web server--a useful tool for DNA methylation analysis. Nucleic Acids Research, 2008, 36, e34-e34.	6.5	56

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19	Target recognition, RNA methylation activity and transcriptional regulation of the Dictyostelium discoideum Dnmt2-homologue (DnmA). Nucleic Acids Research, 2013, 41, 8615-8627.	6.5	56
20	The RNA methyltransferase Dnmt2 methylates DNA in the structural context of a tRNA. RNA Biology, 2017, 14, 1241-1251.	1.5	51
21	Genome-wide hydroxymethylcytosine pattern changes in response to oxidative stress. Scientific Reports, 2015, 5, 12714.	1.6	48
22	Target specificity of mammalian DNA methylation and demethylation machinery. Organic and Biomolecular Chemistry, 2018, 16, 1419-1435.	1.5	43
23	Somatic cancer mutations in the DNMT2 tRNA methyltransferase alter its catalytic properties. Biochimie, 2015, 112, 66-72.	1.3	41
24	Targeted epigenetic editing of SPDEF reduces mucus production in lung epithelial cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 312, L334-L347.	1.3	35
25	Application of DNA methyltransferases in targeted DNA methylation. Applied Microbiology and Biotechnology, 2007, 75, 1233-1240.	1.7	29
26	Approaches to Enzyme and Substrate Design of the Murine Dnmt3a DNA Methyltransferase. ChemBioChem, 2011, 12, 1589-1594.	1.3	29
27	The Dnmt2 RNA methyltransferase homolog of Geobacter sulfurreducens specifically methylates tRNA-Glu. Nucleic Acids Research, 2014, 42, 6487-6496.	6.5	27
28	Non-invasive detection of DNA methylation states in carcinoma and pluripotent stem cells using Raman microspectroscopy and imaging. Scientific Reports, 2019, 9, 7014.	1.6	24
29	The Caulobacter crescentus DNA-(adenine-N6)-methyltransferase CcrM methylates DNA in a distributive manner. Nucleic Acids Research, 2012, 40, 1708-1716.	6.5	22
30	Burning off DNA Methylation: New Evidence for Oxygenâ€Dependent DNA Demethylation. ChemBioChem, 2011, 12, 2543-2545.	1.3	18
31	Mapping the tRNA Binding Site on the Surface of Human DNMT2 Methyltransferase. Biochemistry, 2012, 51, 4438-4444.	1.2	17
32	Autoâ€methylation of the mouse DNAâ€(cytosine C5)â€methyltransferase Dnmt3a at its active site cysteine residue. FEBS Journal, 2011, 278, 2055-2063.	2.2	16
33	The M.EcoRV DNA-(Adenine N6)-methyltransferase Uses DNA Bending for Recognition of an Expanded EcoDam Recognition Site. Journal of Biological Chemistry, 2007, 282, 36942-36952.	1.6	15
34	Mapping of Proteinâ€“Protein Interaction Sites by the â€˜Absence of Interferenceâ€™ Approach. Journal of Molecular Biology, 2008, 376, 1091-1099.	2.0	14
35	Conformation and activity of lipase B from Candida antarctica in bicontinuous microemulsions. Colloids and Surfaces B: Biointerfaces, 2015, 131, 108-114.	2.5	12
36	DNA Interaction of the CcrM DNA Methyltransferase: A Mutational and Modeling Study. ChemBioChem, 2012, 13, 1304-1311.	1.3	9

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37	Epigenetic Modulation of Radiation-Induced Diacylglycerol Kinase Alpha Expression Prevents Pro-Fibrotic Fibroblast Response. Cancers, 2021, 13, 2455.	1.7	8
38	Simple Synthesis of Functionalized Paramagnetic Beads for Nucleic Acid Purification and Manipulation. Bio-protocol, 2019, 9, e3394.	0.2	8
39	Different forms of African cassava mosaic virus capsid protein within plants and virions. Virology, 2019, 529, 81-90.	1.1	7
40	Enzymatic Hydroxylation and Excision of Extended 5-Methylcytosine Analogues. Journal of Molecular Biology, 2020, 432, 6157-6167.	2.0	6
41	Investigation of the C-terminal domain of the bacterial DNA-(adenine N6)-methyltransferase CcrM. Biochimie, 2015, 119, 60-67.	1.3	5
42	TET-mediated DNA hydroxymethylation is negatively influenced by the PARP-dependent PARylation. Epigenetics and Chromatin, 2022, 15, 11.	1.8	4
43	Capturing and Stabilizing Folded Proteins in Lattices Formed with Branched Oligonucleotide Hybrids. ChemBioChem, 2018, 19, 1523-1530.	1.3	3
44	Technologies and applications for the assessment of 5-hydroxymethylcytosine. , 2020, , 261-278.		2
45	Enrichment of Cxcl12 promoter with TET2: A possible link between promoter demethylation and enhanced gene expression in the absence of PARP-1. Archives of Biological Sciences, 2019, 71, 455-462.	0.2	1
46	Establishment, Erasure and Synthetic Reprogramming of DNA Methylation in Mammalian Cells. RNA Technologies, 2019, , 1-26.	0.2	1