# Taiping Chen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3604526/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 35<br>papers | 6,061<br>citations | 186265<br>28<br>h-index | 361022<br>35<br>g-index |
| 37<br>all docs | 37<br>docs citations | 37<br>times ranked | 8461<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The lysine demethylase LSD1 (KDM1) is required for maintenance of global DNA methylation. Nature Genetics, 2009, 41, 125-129. | 21.4 | 721 |
| 2 | Establishment and Maintenance of Genomic Methylation Patterns in Mouse Embryonic Stem Cells by Dnmt3a and Dnmt3b. Molecular and Cellular Biology, 2003, 23, 5594-5605. | 2.3 | 652 |
| 3 | DNA methyltransferases control telomere length and telomere recombination in mammalian cells. Nature Cell Biology, 2006, 8, 416-424. | 10.3 | 538 |
| 4 | KDM1B is a histone H3K4 demethylase required to establish maternal genomic imprints. Nature, 2009, 461, 415-418. | 27.8 | 465 |
| 5 | A mammalian microRNA cluster controls DNA methylation and telomere recombination via Rbl2-dependent regulation of DNA methyltransferases. Nature Structural and Molecular Biology, 2008, 15, 268-279. | 8.2 | 348 |
| 6 | Complete inactivation of DNMT1 leads to mitotic catastrophe in human cancer cells. Nature Genetics, 2007, 39, 391-396. | 21.4 | 308 |
| 7 | A Novel Dnmt3a Isoform Produced from an Alternative Promoter Localizes to Euchromatin and Its Expression Correlates with Activede Novo Methylation. Journal of Biological Chemistry, 2002, 277, 38746-38754. | 3.4 | 302 |
| 8 | Structure and Function of Eukaryotic DNA Methyltransferases. Current Topics in Developmental Biology, 2004, 60, 55-89. | 2.2 | 272 |
| 9 | The PWWP Domain of Dnmt3a and Dnmt3b Is Required for Directing DNA Methylation to the Major Satellite Repeats at Pericentric Heterochromatin. Molecular and Cellular Biology, 2004, 24, 9048-9058. | 2.3 | 241 |
| 10 | Inactivation of Dnmt3b in Mouse Embryonic Fibroblasts Results in DNA Hypomethylation, Chromosomal Instability, and Spontaneous Immortalization. Journal of Biological Chemistry, 2005, 280, 17986-17991. | 3.4 | 237 |
| 11 | DNA Methylation Reprogramming during Mammalian Development. Genes, 2019, 10, 257. | 2.4 | 215 |
| 12 | Genetic alterations of DNA methylation machinery in human diseases. Epigenomics, 2015, 7, 247-265. | 2.1 | 209 |
| 13 | Dynamic changes in histone modifications precede de novo DNA methylation in oocytes. Genes and Development, 2015, 29, 2449-2462. | 5.9 | 170 |
| 14 | A DNMT3A mutation common in AML exhibits dominant-negative effects in murine ES cells. Blood, 2013, 122, 4086-4089. | 1.4 | 153 |
| 15 | Lsh is involved in de novo methylation of DNA. EMBO Journal, 2006, 25, 335-345. | 7.8 | 150 |
| 16 | DNMT3A and TET1 cooperate to regulate promoter epigenetic landscapes in mouse embryonic stem cells. Genome Biology, 2018, 19, 88. | 8.8 | 120 |
| 17 | DNMT3L facilitates DNA methylation partly by maintaining DNMT3A stability in mouse embryonic stem cells. Nucleic Acids Research, 2019, 47, 152-167. | 14.5 | 99 |
| 18 | LSD1 demethylates histone and non-histone proteins. Epigenetics, 2009, 4, 129-132. | 2.7 | 93 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | KMT1E Mediated H3K9 Methylation Is Required for the Maintenance of Embryonic Stem Cells by Repressing Trophectoderm Differentiation. Stem Cells, 2010, 28, 201-212. | 3.2 | 81 |
| 20 | Zscan4 Inhibits Maintenance DNA Methylation to Facilitate Telomere Elongation in Mouse Embryonic Stem Cells. Cell Reports, 2017, 20, 1936-1949. | 6.4 | 81 |
| 21 | Maternal Setdb1 Is Required for Meiotic Progression and Preimplantation Development in Mouse. PLoS Genetics, 2016, 12, e1005970. | 3.5 | 75 |
| 22 | Negative regulation of DNMT3A de novo DNA methylation by frequently overexpressed UHRF family proteins as a mechanism for widespread DNA hypomethylation in cancer. Cell Discovery, 2016, 2, 16007. | 6.7 | 74 |
| 23 | Transcription and chromatin determinants of de novo DNA methylation timing in oocytes. Epigenetics and Chromatin, 2017, 10, 25. | 3.9 | 69 |
| 24 | Tet family of 5-methylcytosine dioxygenases in mammalian development. Journal of Human Genetics, 2013, 58, 421-427. | 2.3 | 64 |
| 25 | The Arginine Methyltransferase PRMT6 Regulates DNA Methylation and Contributes to Global DNA Hypomethylation in Cancer. Cell Reports, 2017, 21, 3390-3397. | 6.4 | 60 |
| 26 | De novo identification of essential protein domains from CRISPR-Cas9 tiling-sgRNA knockout screens. Nature Communications, 2019, 10, 4541. | 12.8 | 44 |
| 27 | The inactive Dnmt3b3 isoform preferentially enhances Dnmt3b-mediated DNA methylation. Genes and Development, 2020, 34, 1546-1558. | 5.9 | 44 |
| 28 | Genetic Studies on Mammalian DNA Methyltransferases. Advances in Experimental Medicine and Biology, 2016, 945, 123-150. | 1.6 | 38 |
| 29 | Structural basis of specific DNA binding by the transcription factor ZBTB24. Nucleic Acids Research, 2019, 47, 8388-8398. | 14.5 | 29 |
| 30 | Identification of Rpl29 as a major substrate of the lysine methyltransferase Set7/9. Journal of Biological Chemistry, 2018, 293, 12770-12780. | 3.4 | 24 |
| 31 | A Hypomorphic Lsd1 Allele Results in Heart Development Defects in Mice. PLoS ONE, 2013, 8, e60913. | 2.5 | 23 |
| 32 | The ZBTB24-CDCA7 axis regulates HELLS enrichment at centromeric satellite repeats to facilitate DNA methylation. Protein and Cell, 2020, 11, 214-218. | 11.0 | 21 |
| 33 | The Essential Function of SETDB1 in Homologous Chromosome Pairing and Synapsis during Meiosis. Cell Reports, 2021, 34, 108575. | 6.4 | 16 |
| 34 | LRIG1 is a pleiotropic androgen receptor-regulated feedback tumor suppressor in prostate cancer. Nature Communications, 2019, 10, 5494. | 12.8 | 13 |
| 35 | Mechanistic and Functional Links Between Histone Methylation and DNA Methylation. Progress in Molecular Biology and Translational Science, 2011, 101, 335-348. | 1.7 | 12 |