# Adrian Peter Bird

## List of Publications by Citations



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|---|---|---|---|
| 131 papers | 38,986 citations | 66 h-index | 148 g-index |
| 148 ext. papers | 42,824 ext. citations | 17.8 avg, IF | 7.88 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 131 | DNA methylation patterns and epigenetic memory. *Genes and Development*, **2002**, 16, 6-21 | 12.6 | 4960 |
| 130 | Epigenetic regulation of gene expression: how the genome integrates intrinsic and environmental signals. *Nature Genetics*, **2003**, 33 Suppl, 245-54 | 36.3 | 4561 |
| 129 | Transcriptional repression by the methyl-CpG-binding protein MeCP2 involves a histone deacetylase complex. *Nature*, **1998**, 393, 386-9 | 50.4 | 2784 |
| 128 | DNA methylation landscapes: provocative insights from epigenomics. *Nature Reviews Genetics*, **2008**, 9, 465-76 | 30.1 | 2183 |
| 127 | Perceptions of epigenetics. *Nature*, **2007**, 447, 396-8 | 50.4 | 2012 |
| 126 | CpG islands and the regulation of transcription. *Genes and Development*, **2011**, 25, 1010-22 | 12.6 | 2006 |
| 125 | A mouse Mecp2-null mutation causes neurological symptoms that mimic Rett syndrome. *Nature Genetics*, **2001**, 27, 322-6 | 36.3 | 1223 |
| 124 | Purification, sequence, and cellular localization of a novel chromosomal protein that binds to methylated DNA. *Cell*, **1992**, 69, 905-14 | 56.2 | 1090 |
| 123 | Identification and characterization of a family of mammalian methyl-CpG binding proteins. *Molecular and Cellular Biology*, **1998**, 18, 6538-47 | 4.8 | 1079 |
| 122 | MeCP2 is a transcriptional repressor with abundant binding sites in genomic chromatin. *Cell*, **1997**, 88, 471-81 | 56.2 | 1042 |
| 121 | Reversal of neurological defects in a mouse model of Rett syndrome. *Science*, **2007**, 315, 1143-7 | 33.3 | 898 |
| 120 | The essentials of DNA methylation. *Cell*, **1992**, 70, 5-8 | 56.2 | 888 |
| 119 | MBD2 is a transcriptional repressor belonging to the MeCP1 histone deacetylase complex. *Nature Genetics*, **1999**, 23, 58-61 | 36.3 | 692 |
| 118 | DNA methylation inhibits transcription indirectly via a methyl-CpG binding protein. *Cell*, **1991**, 64, 1123-34 | 56.2 | 644 |
| 117 | High levels of de novo methylation and altered chromatin structure at CpG islands in cell lines. *Cell*, **1990**, 62, 503-14 | 56.2 | 618 |
| 116 | Oxidative damage to methyl-CpG sequences inhibits the binding of the methyl-CpG binding domain (MBD) of methyl-CpG binding protein 2 (MeCP2). *Nucleic Acids Research*, **2004**, 32, 4100-8 | 20.1 | 582 |
| 115 | A fraction of the mouse genome that is derived from islands of nonmethylated, CpG-rich DNA. *Cell*, **1985**, 40, 91-9 | 56.2 | 568 |

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| 114 | The thymine glycosylase MBD4 can bind to the product of deamination at methylated CpG sites. *Nature*, **1999**, 401, 301-4 | 50.4 | 539 |
| 113 | CpG islands influence chromatin structure via the CpG-binding protein Cfp1. *Nature*, **2010**, 464, 1082-6 | 50.4 | 507 |
| 112 | Dissection of the methyl-CpG binding domain from the chromosomal protein MeCP2. *Nucleic Acids Research*, **1993**, 21, 4886-92 | 20.1 | 501 |
| 111 | A novel CpG island set identifies tissue-specific methylation at developmental gene loci. *PLoS Biology*, **2008**, 6, e22 | 9.7 | 476 |
| 110 | Closely related proteins MBD2 and MBD3 play distinctive but interacting roles in mouse development. *Genes and Development*, **2001**, 15, 710-23 | 12.6 | 385 |
| 109 | Histone deacetylases: silencers for hire. *Trends in Biochemical Sciences*, **2000**, 25, 121-6 | 10.3 | 371 |
| 108 | The p120 catenin partner Kaiso is a DNA methylation-dependent transcriptional repressor. *Genes and Development*, **2001**, 15, 1613-8 | 12.6 | 359 |
| 107 | The role of MeCP2 in the brain. *Annual Review of Cell and Developmental Biology*, **2011**, 27, 631-52 | 12.6 | 342 |
| 106 | Embryonic lethal phenotype reveals a function of TDG in maintaining epigenetic stability. *Nature*, **2011**, 470, 419-23 | 50.4 | 282 |
| 105 | Enhanced CpG mutability and tumorigenesis in MBD4-deficient mice. *Science*, **2002**, 297, 403-5 | 33.3 | 266 |
| 104 | BLUEPRINT to decode the epigenetic signature written in blood. *Nature Biotechnology*, **2012**, 30, 224-6 | 44.5 | 261 |
| 103 | Rett syndrome mutations abolish the interaction of MeCP2 with the NCoR/SMRT co-repressor. *Nature Neuroscience*, **2013**, 16, 898-902 | 25.5 | 252 |
| 102 | The International Human Epigenome Consortium: A Blueprint for Scientific Collaboration and Discovery. *Cell*, **2016**, 167, 1145-1149 | 56.2 | 232 |
| 101 | Active repression of methylated genes by the chromosomal protein MBD1. *Molecular and Cellular Biology*, **2000**, 20, 1394-406 | 4.8 | 221 |
| 100 | Rett syndrome: a complex disorder with simple roots. *Nature Reviews Genetics*, **2015**, 16, 261-75 | 30.1 | 216 |
| 99 | Cell type-specific DNA methylation at intragenic CpG islands in the immune system. *Genome Research*, **2011**, 21, 1074-86 | 9.7 | 215 |
| 98 | A component of the transcriptional repressor MeCP1 shares a motif with DNA methyltransferase and HRX proteins. *Nature Genetics*, **1997**, 16, 256-9 | 36.3 | 208 |
| 97 | The methyl-CpG binding protein MeCP2 is essential for embryonic development in the mouse. *Nature Genetics*, **1996**, 12, 205-8 | 36.3 | 197 |

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| 96 | Interaction between chromatin proteins MECP2 and ATRX is disrupted by mutations that cause inherited mental retardation. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 2709-14 | 11.5 | 196 |
| 95 | The major form of MeCP2 has a novel N-terminus generated by alternative splicing. *Nucleic Acids Research*, **2004**, 32, 1818-23 | 20.1 | 189 |
| 94 | Cfp1 integrates both CpG content and gene activity for accurate H3K4me3 deposition in embryonic stem cells. *Genes and Development*, **2012**, 26, 1714-28 | 12.6 | 184 |
| 93 | CpG islands as genomic footprints of promoters that are associated with replication origins. *Current Biology*, **1999**, 9, R661-7 | 6.3 | 177 |
| 92 | CpG methylation is targeted to transcription units in an invertebrate genome. *Genome Research*, **2007**, 17, 625-31 | 9.7 | 169 |
| 91 | Gene expression analysis exposes mitochondrial abnormalities in a mouse model of Rett syndrome. *Molecular and Cellular Biology*, **2006**, 26, 5033-42 | 4.8 | 158 |
| 90 | Systemic delivery of MeCP2 rescues behavioral and cellular deficits in female mouse models of Rett syndrome. *Journal of Neuroscience*, **2013**, 33, 13612-20 | 6.6 | 155 |
| 89 | Up-regulation of glucocorticoid-regulated genes in a mouse model of Rett syndrome. *Human Molecular Genetics*, **2005**, 14, 2247-56 | 5.6 | 152 |
| 88 | Deficiency of Mbd2 suppresses intestinal tumorigenesis. *Nature Genetics*, **2003**, 34, 145-7 | 36.3 | 150 |
| 87 | DNA methylation and chromatin structure. *FEBS Letters*, **1991**, 285, 155-9 | 3.8 | 138 |
| 86 | Kaiso-deficient mice show resistance to intestinal cancer. *Molecular and Cellular Biology*, **2006**, 26, 199-208 | 4.8 | 136 |
| 85 | Fas-associated death domain protein interacts with methyl-CpG binding domain protein 4: a potential link between genome surveillance and apoptosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 5211-6 | 11.5 | 125 |
| 84 | Nonmethylated transposable elements and methylated genes in a chordate genome. *Science*, **1999**, 283, 1164-7 | 33.3 | 122 |
| 83 | Somatic frameshift mutations in the MBD4 gene of sporadic colon cancers with mismatch repair deficiency. *Oncogene*, **1999**, 18, 8044-7 | 9.2 | 121 |
| 82 | Absence of genome-wide changes in DNA methylation during development of the zebrafish. *Nature Genetics*, **1999**, 23, 139-40 | 36.3 | 116 |
| 81 | Vestiges of a DNA methylation system in Drosophila melanogaster?. *Nature Genetics*, **1999**, 23, 389-90 | 36.3 | 111 |
| 80 | Morphological and functional reversal of phenotypes in a mouse model of Rett syndrome. *Brain*, **2012**, 135, 2699-710 | 11.2 | 109 |
| 79 | Rett Syndrome: Crossing the Threshold to Clinical Translation. *Trends in Neurosciences*, **2016**, 39, 100-113 | 13.3 | 104 |

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| 78 | Loss of rDNA methylation accompanies the onset of ribosomal gene activity in early development of X. laevis. *Cell*, **1981**, 26, 381-90 | 56.2 | 99 |
| 77 | The effect of interspecific oocytes on demethylation of sperm DNA. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 7636-40 | 11.5 | 98 |
| 76 | Genomic structure and chromosomal mapping of the murine and human Mbd1, Mbd2, Mbd3, and Mbd4 genes. *Mammalian Genome*, **1999**, 10, 906-12 | 3.2 | 96 |
| 75 | Ribosomal RNA gene amplification by rolling circles. *Journal of Molecular Biology*, **1974**, 87, 473-87 | 6.5 | 89 |
| 74 | The Role of Epigenetic Mechanisms in the Regulation of Gene Expression in the Nervous System. *Journal of Neuroscience*, **2016**, 36, 11427-11434 | 6.6 | 88 |
| 73 | A temporal threshold for formaldehyde crosslinking and fixation. *PLoS ONE*, **2009**, 4, e4636 | 3.7 | 88 |
| 72 | Radically truncated MeCP2 rescues Rett syndrome-like neurological defects. *Nature*, **2017**, 550, 398-401 | 50.4 | 84 |
| 71 | MeCP2 recognizes cytosine methylated tri-nucleotide and di-nucleotide sequences to tune transcription in the mammalian brain. *PLoS Genetics*, **2017**, 13, e1006793 | 6 | 76 |
| 70 | Synthetic CpG islands reveal DNA sequence determinants of chromatin structure. *ELife*, **2014**, 3, e03397 | 8.9 | 76 |
| 69 | Postnatal inactivation reveals enhanced requirement for MeCP2 at distinct age windows. *Human Molecular Genetics*, **2012**, 21, 3806-14 | 5.6 | 75 |
| 68 | MBD4 deficiency reduces the apoptotic response to DNA-damaging agents in the murine small intestine. *Oncogene*, **2003**, 22, 7130-6 | 9.2 | 75 |
| 67 | Gene silencing by methyl-CpG-binding proteins. *Novartis Foundation Symposium*, **1998**, 214, 6-16; discussion 16-21, 46-50 | | 71 |
| 66 | Genomic approaches reveal unexpected genetic divergence within Ciona intestinalis. *Journal of Molecular Evolution*, **2005**, 61, 627-35 | 3.1 | 67 |
| 65 | Densely methylated sequences that are preferentially localized at telomere-proximal regions of human chromosomes. *Gene*, **1999**, 240, 269-77 | 3.8 | 65 |
| 64 | Transcriptional repression by methylation of CpG. *Journal of Cell Science*, **1992**, 16, 9-14 | 5.3 | 65 |
| 63 | Disease modeling using embryonic stem cells: MeCP2 regulates nuclear size and RNA synthesis in neurons. *Stem Cells*, **2012**, 30, 2128-39 | 5.8 | 63 |
| 62 | Molecular biology. MeCP2 repression goes nonglobal. *Science*, **2003**, 302, 793-5 | 33.3 | 63 |
| 61 | dSIR2 and dHDAC6: two novel, inhibitor-resistant deacetylases in Drosophila melanogaster. *Experimental Cell Research*, **2001**, 265, 90-103 | 4.2 | 59 |

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| 60 | An alternative promoter in the mouse major histocompatibility complex class II I-Abeta gene: implications for the origin of CpG islands. *Molecular and Cellular Biology*, **1998**, 18, 4433-43 | 4.8 | 58 |
| 59 | Targeting of de novo DNA methylation throughout the Oct-4 gene regulatory region in differentiating embryonic stem cells. *PLoS ONE*, **2010**, 5, e9937 | 3.7 | 56 |
| 58 | MeCP2 and other methyl-CpG binding proteins. *Mental Retardation and Developmental Disabilities Research Reviews*, **2002**, 8, 87-93 | | 56 |
| 57 | The methyl-CpG-binding protein MeCP2 and neurological disease. *Biochemical Society Transactions*, **2008**, 36, 575-83 | 5.1 | 55 |
| 56 | Mbd2 contributes to DNA methylation-directed repression of the Xist gene. *Molecular and Cellular Biology*, **2007**, 27, 3750-7 | 4.8 | 54 |
| 55 | The molecular basis of variable phenotypic severity among common missense mutations causing Rett syndrome. *Human Molecular Genetics*, **2016**, 25, 558-70 | 5.6 | 54 |
| 54 | A dominant role for the methyl-CpG-binding protein Mbd2 in controlling Th2 induction by dendritic cells. *Nature Communications*, **2015**, 6, 6920 | 17.4 | 53 |
| 53 | DNAase I sensitivity and methylation of active versus inactive rRNA genes in xenopus species hybrids. *Cell*, **1982**, 29, 211-8 | 56.2 | 53 |
| 52 | Reversibility of functional deficits in experimental models of Rett syndrome. *Biochemical Society Transactions*, **2010**, 38, 498-506 | 5.1 | 52 |
| 51 | Transcription in oocytes of highly methylated rDNA from Xenopus laevis sperm. *Nature*, **1983**, 306, 200-3 | 50.4 | 47 |
| 50 | The dinucleotide CG as a genomic signalling module. *Journal of Molecular Biology*, **2011**, 409, 47-53 | 6.5 | 44 |
| 49 | Non-methylated islands in fish genomes are GC-poor. *Nucleic Acids Research*, **1991**, 19, 1469-74 | 20.1 | 42 |
| 48 | R-Loops Enhance Polycomb Repression at a Subset of Developmental Regulator Genes. *Molecular Cell*, **2019**, 73, 930-945.e4 | 17.6 | 41 |
| 47 | Sequence analysis of transposable elements in the sea squirt, Ciona intestinalis. *Molecular Biology and Evolution*, **2000**, 17, 1685-94 | 8.3 | 40 |
| 46 | Studies of DNA methylation in animals. *Journal of Cell Science*, **1995**, 19, 37-9 | 5.3 | 40 |
| 45 | The Molecular Basis of MeCP2 Function in the Brain. *Journal of Molecular Biology*, **2019**, | 6.5 | 40 |
| 44 | DNA methylation reader MECP2: cell type- and differentiation stage-specific protein distribution. *Epigenetics and Chromatin*, **2014**, 7, 17 | 5.8 | 38 |
| 43 | Exclusive expression of MeCP2 in the nervous system distinguishes between brain and peripheral Rett syndrome-like phenotypes. *Human Molecular Genetics*, **2016**, 25, 4389-4404 | 5.6 | 38 |

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| 42 | Binding of histone H1 to DNA is indifferent to methylation at CpG sequences. *Journal of Biological Chemistry*, **1995**, 270, 26473-81 | 5.4 | 37 |
| 41 | DNaseI-hypersensitive sites at promoter-like sequences in the spacer of Xenopus laevis and Xenopus borealis ribosomal DNA. *Nucleic Acids Research*, **1983**, 11, 5361-80 | 20.1 | 30 |
| 40 | Predicting the total number of human genes. *Nature Genetics*, **1994**, 8, 114 | 36.3 | 29 |
| 39 | MBD2 is required for correct spatial gene expression in the gut. *Molecular and Cellular Biology*, **2007**, 27, 4049-57 | 4.8 | 27 |
| 38 | Is gene amplification RNA-directed?. *Nature: New Biology*, **1973**, 242, 226-30 | | 24 |
| 37 | A unique DNA methylation signature defines a population of IFN-γ/IL-4 double-positive T cells during helminth infection. *European Journal of Immunology*, **2014**, 44, 1835-41 | 6.1 | 23 |
| 36 | Do short, frequent DNA sequence motifs mould the epigenome?. *Nature Reviews Molecular Cell Biology*, **2016**, 17, 257-62 | 48.7 | 22 |
| 35 | MBD2-mediated transcriptional repression of the p14ARF tumor suppressor gene in human colon cancer cells. *Pathobiology*, **2008**, 75, 281-7 | 3.6 | 22 |
| 34 | Sequence-specific DNA binding by AT-hook motifs in MeCP2. *FEBS Letters*, **2016**, 590, 2927-33 | 3.8 | 21 |
| 33 | MBD2 deficiency does not accelerate p53 mediated lymphomagenesis. *Oncogene*, **2005**, 24, 2430-2 | 9.2 | 17 |
| 32 | MBD4 deficiency does not increase mutation or accelerate tumorigenesis in mice lacking MMR. *Oncogene*, **2004**, 23, 5693-6 | 9.2 | 16 |
| 31 | Toxicity of overexpressed MeCP2 is independent of HDAC3 activity. *Genes and Development*, **2018**, 32, 1514-1524 | 12.6 | 16 |
| 30 | A mutation-led search for novel functional domains in MeCP2. *Human Molecular Genetics*, **2018**, 27, 2531-2545 | 5.6 | 14 |
| 29 | Affinity for DNA Contributes to NLS Independent Nuclear Localization of MeCP2. *Cell Reports*, **2018**, 24, 2213-2220 | 10.6 | 14 |
| 28 | The origin of the rRNA precursor from Xenopus borealis, analysed in vivo and in vitro. *Nucleic Acids Research*, **1983**, 11, 8167-81 | 20.1 | 13 |
| 27 | The Selfishness of Law-Abiding Genes. *Trends in Genetics*, **2020**, 36, 8-13 | 8.5 | 10 |
| 26 | Genome biology: not drowning but waving. *Cell*, **2013**, 154, 951-952 | 56.2 | 9 |
| 25 | Absence of MeCP2 binding to non-methylated GT-rich sequences in vivo. *Nucleic Acids Research*, **2020**, 48, 3542-3552 | 20.1 | 7 |

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| 24 | CpG Islands: A Historical Perspective. *Methods in Molecular Biology*, **2018**, 1766, 3-13 | 1.4 | 7 |
| 23 | Identification and characterization of a family of mammalian methyl CpG-binding proteins. *Genetical Research*, **1998**, 72, 59-72 | 1.1 | 7 |
| 22 | Neuronal non-CG methylation is an essential target for MeCP2 function. *Molecular Cell*, **2021**, 81, 1260-1275.e12 | 17.6 | 7 |
| 21 | Genetic determinants of the epigenome in development and cancer. *Swiss Medical Weekly*, **2017**, 147, w14523 | 3.1 | 6 |
| 20 | Quantitative analysis questions the role of MeCP2 as a global regulator of alternative splicing. *PLoS Genetics*, **2020**, 16, e1009087 | 6 | 5 |
| 19 | SALL4 controls cell fate in response to DNA base composition. *Molecular Cell*, **2021**, 81, 845-858.e8 | 17.6 | 5 |
| 18 | DNA Methylation: Mega-Year Inheritance with the Help of Darwin. *Current Biology*, **2020**, 30, R319-R321 | 6.3 | 3 |
| 17 | Max Birnstiel 1933-2014: Gene pioneer. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 302-3 | 11.5 | 2 |
| 16 | An Orphan CpG Island Drives Expression of a miRNA Precursor with an Important Role in Mouse Development. *Epigenomes*, **2019**, 3, 7 | 2.3 | 1 |
| 15 | Themajor transitions in evolution. *Trends in Ecology and Evolution*, **1995**, 10, 385 | 10.9 | 1 |
| 14 | Neuronal non-CG methylation is an essential target for MeCP2 function | | 1 |
| 13 | Quantitative modelling predicts the impact of DNA methylation on RNA polymerase II traffic | | 1 |
| 12 | Guiseppe Giordan and Enzo Pace, eds, Mapping Religion and Spirituality in a Postsecular World, Religion and the Social Order 22 (Leiden and Boston: Brill, 2008), pp. viii + 203, £81.00, ISBN978 90 04 23022 4 (hbk).. *International Journal of Public Theology*, **2013**, 7, 485-486 | 0.2 | |
| 11 | God and Human Dignity. *International Journal of Public Theology*, **2009**, 3, 503-504 | 0.2 | |
| 10 | Francesca Aran Murphy and Christopher Asprey, eds, Ecumenism Today: The Universal Church in the 21st Century (Aldershot: Ashgate Publishing House, 2008), pp. viii + 220, £50.00, ISBN 978-0-7546-5961-7 (hbk).. *International Journal of Public Theology*, **2011**, 5, 499 | 0.2 | |
| 9 | Christianity as a World Religion. *International Journal of Public Theology*, **2011**, 5, 260-261 | 0.2 | |
| 8 | Marianne Rankin, An Introduction to Religious and Spiritual Experience (London and New York: Continuum International Publishing Group, 2008), pp. 286, £24.99, ISBN 978-0-8264-9821-2 (pbk).. *International Journal of Public Theology*, **2012**, 6, 127 | 0.2 | |
| 7 | Human Genome Evolution. Edited by M. Jackson, T. Strachan and G. Dover. BIOS Scientific Publishers, 1996. 306 + x pages. Price £60.00 ($120). ISBN 1 859960 95 2.. *Genetical Research*, **1997**, 69, 75-78 | 1.1 | |

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| 6 | Genetic therapies for neurological disorders. *Human Genetics*, **2021**, 1 | 6.3 |
| 5 | Michael Amaladoss. 2006. The Asian Jesus. New York: Orbis Books, pp. 180, Pb, £11.99.. *Studies in World Christianity*, **2008**, 14, 182-182 | 0.1 |
| 4 | Quantitative analysis questions the role of MeCP2 as a global regulator of alternative splicing **2020**, 16, e1009087 | |
| 3 | Quantitative analysis questions the role of MeCP2 as a global regulator of alternative splicing **2020**, 16, e1009087 | |
| 2 | Quantitative analysis questions the role of MeCP2 as a global regulator of alternative splicing **2020**, 16, e1009087 | |
| 1 | Quantitative analysis questions the role of MeCP2 as a global regulator of alternative splicing **2020**, 16, e1009087 | |