

The methylome refers to the overall pattern of [DNA methylation](#), an epigenetic modification that can affect [gene expression](#), in a cell or tissue. DNA methylation involves the addition of a [methyl](#) group to the [cytosine](#) base of a [DNA](#) molecule, typically in a region called a [CpG island](#), and can be influenced by a variety of genetic and environmental factors. Changes in the methylome have been associated with a range of health and disease states, including cancer, neurological and psychiatric disorders, and aging. Recent advances in sequencing and bioinformatics technologies have enabled a more comprehensive analysis of the methylome and may provide valuable insights into the molecular mechanisms underlying these conditions.

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