

Open Peer Review on Qeios

## MethylC-Seq

National Cancer Institute

## Source

National Cancer Institute. <u>MethylC-Seq</u>. NCI Thesaurus. Code C106055.

A DNA sequencing technique that can differentiate cytosine from 5-methylcytosine in a DNA sample. It combines bisulfite treatment with next generation sequencing techniques. First, a genomic DNA sample is amplified using adaptor oligonucleotides in which every cytosine is methylated. Then, the amplified DNA is treated with bisulfite twice under denaturing conditions, which converts non-methylated cytosine residues to uracil. The bisulfite-treated sample is subjected to another round of amplification and subsequently analyzed by shotgun sequencing.

Qeios ID: QZTTNB · https://doi.org/10.32388/QZTTNB