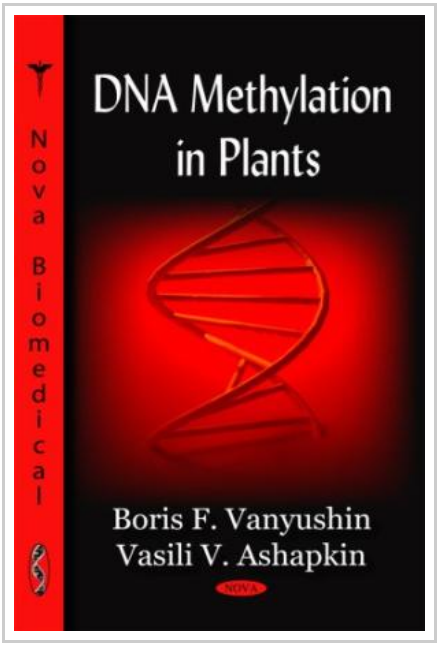

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DNA Methylation in Plants

By Boris F. Vanyushin, Vasili V. Ashapkin

Nova Science Publishers Inc. Paperback. Book Condition: new. BRAND NEW, DNA Methylation in Plants, Boris F. Vanyushin, Vasili V. Ashapkin, A high degree of nuclear DNA (nDNA) methylation is a specific feature of plant genomes, they do contain 5-methylcytosine (m5C) and N6-methyl adenine (m6A). More than 30 per cent m5C is located in CNG sequences. Specific changes in DNA methylation accompany the entire life of a plant starting from seed germination up to the death programmed or induced by various agents and factors of biological or abiotic nature. Modulation of DNA methylation is one of the possible modes of the hormonal action in plant. DNA methylation in plants is species-, tissue-, organelle- and age-specific; it is involved in the control of all genetic functions including transcription, replication, DNA repair, gene transposition and cell differentiation.DNA methylation is engaged in gene silencing and parental imprinting, it controls trans genes and foreign DNA.Plants have much more complicated and sophisticated system of the multi-component and sometimes even conjugated genome (nuclear DNA) methylations compared with animals; besides, unlike animals, they have the plastids with their own unique DNA modification system that may control plastid differentiation and functioning; DNA methylation in plant mitochondria is performed in...

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