



关于组蛋白甲基化的研究On The Research of Histone Methylation

<http://www.firstlight.cn> 2008-01-10

摘要

主要阐述了组蛋白甲基转移酶的类型，组蛋白H3中第9位赖氨酸甲基化与异染色质的形成、常染色体中基因表达的调控，以及与DNA甲基化之间的关系，说明了组蛋白甲基化与组蛋白乙酰化、磷酸化的相互关系，指出组蛋白甲基化对维持细胞各种状态的平衡起到极其重要的作用。

Abstract: The types of histone methyltransferases, the relationship between methylation of Lysine 9 of H3 and the formation of heterochromatin, gene regulation in euchromatin, and that with DNA methylation, were mainly introduced. The interrelation between histone methylation and histone acetylation/phosphorylation was summarized. It is showed that histone methylation plays a very important role in maintaining the balance state of cell. The future research tendency of histone methylation was fantastic.

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