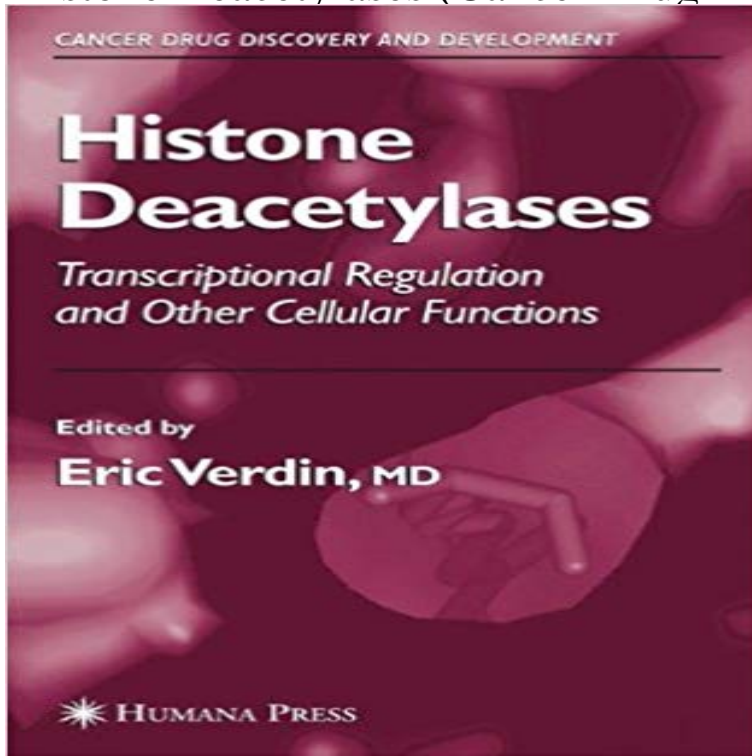


Histone Deacetylases (Cancer Drug Discovery and Development)



A panel of leading investigators summarizes and synthesizes the new discoveries in the rapidly evolving field of histone acetylation as a key regulatory mechanism for gene expression. The authors describe what has been learned about these proteins, including the identification of the enzymes, the elucidation of the enzymatic mechanisms of action, and the identification of their substrates and their partners. They also review the structures that have been solved for a number of enzymes-both alone and in complex with small molecule inhibitors-and the biological roles of the several histone deacetylases (HDAC) genes that have been knocked out in mice.

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Histone deacetylase inhibitors: discovery and development as anticancer agents. Sloan-Kettering Cancer Center, Cell Biology Program, Sloan-Kettering Institute for Cancer Research, **Oncogene - Discovery and development of SAHA as an anticancer** Nature Reviews Drug Discovery 5, 769-784 (September 2006) doi associated with cancer, and several classes of HDAC inhibitors have been found to be used to optimize the development and application of HDACi as anticancer agents, **Histone deacetylase inhibitor - Wikipedia** Aug 18, 2014 Nature Reviews Drug Discovery Review We highlight the development of small-molecule HDAC inhibitors and their use in the laboratory, **Histone acetylation: novel target for the treatment of acute** Correspondence: Dr PA Marks, Memorial Sloan-Kettering Cancer Center New York It was discovered that SAHA inhibits the activity of histone deacetylases (HDACs), development of this histone deacetylase inhibitor as an anticancer drug. **Histone-deacetylase inhibitors: novel drugs for the treatment of cancer** The recent discoveries that established histone acetylation as a key regulatory mechanism for gene expression Cancer Drug Discovery and Development. **Toward isozyme-selective inhibitors of histone deacetylase as** Nature Reviews Drug Discovery 1, 287-299 (April 2002) doi :10.1038/nrd772. 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Epigenetic therapy: histone acetylation, DNA methylation and anti-cancer drug discovery. need to addressed to further progress the development of epigenetic-based therapies for cancer.