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Histone Deacetylase

National Cancer Institute

Source

National Cancer Institute. *Histone Deacetylase*. NCI Thesaurus. Code C16682.

Histone acetylation and deacetylation alternately exposes and occludes DNA to transcription factors. Histone deacetylation is catalyzed by the histone deacetylases. There are at least 2 classes of HDACs, class I consisting of proteins homologous to yeast Rpd3 (e.g., HDAC1, HDAC2, and HDAC3) and class II consisting of proteins homologous to yeast Hda1 (e.g., HDAC4 and HDAC6). (from OMIM)