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Nota di contenuto	REVERSIBLE PROTEIN ACETYLATION; Contents; Participants; Chair's introduction; Beyond the double helix: writing and reading the histone code; Discussion; The indexing potential of histone lysine methylation; Discussion; A model for step-wise assembly of heterochromatin in yeast; Discussion; H2B ubiquitylation and de-ubiquitylation in gene activation; Discussion; Structural and chemical basis of histone acetylation; Discussion; Phosphorylation and acetylation of histone H3 at inducible genes: two controversies revisited; Discussion; HDAC7 regulates apoptosis in developing thymocytes; Discussion Dual roles of histone deacetylases in the control of cardiac growth Discussion; Chromatin modifications as clues to the regulation of antigen receptor assembly; Discussion; General discussion I Histone modification in X inactivation; The HDAC complex and cytoskeleton; Discussion; Tat acetylation: a regulatory switch between early and late

phases in HIV transcription elongation; Discussion; Dynamics of the p53 acetylation pathway; Discussion; Regulation of NF-kB action by reversible acetylation; Discussion; General discussion II p300 and DNA repair

Reversal of gene silencing as a therapeutic target for cancer-roles for DNA methylation and its interdigitation with chromatin Discussion; Transcription regulation by histone deacetylases; Discussion; Molecular and cellular basis for the anti-proliferative effects of the HDAC inhibitor LAQ824; Discussion; Histone deacetylase inhibitors: development as cancer therapy; Discussion; General discussion III PML-RARa hypermethylation in leukemia; Index of contributors; Subject index

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Sommario/riassunto

A comprehensive review of recent work on chromatin and non-histone proteins, this book arises from the interactions of a multidisciplinary group of scientists involved in the study of acetylation. This area of research opens up new and exciting possibilities for drug design, and so the final chapters in the book examine some of the potential applications in the treatment of various diseases.

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