Physical properties of inner histone-DNA complexes.

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Abstract: Chicken-erythrocyte inner histone tetramer has been complexed with several natural and synthetic DNA duplexes by the method of cross-linking and salt precipitation. This method is shown to be a powerful tool for studying these complexes. The thermal denaturation curves for a series of DNA fragments reveal two transition temperatures, Tm I and Tm II, which are consistent with the presence of two different domains of DNA associated with the core nucleosomes. This suggests that Tm III and Tm IV arise from the melting of different domains of DNA associated with the core nucleosome.


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