



# Introduction to Protein-DNA Interactions: Structure, Thermodynamics, and Bioinformatics

By Gary D. Stormo

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One of the foundations of molecular biology is how the interactions of proteins with DNA control many aspects of gene expression. Since the mid-20th century discoveries of the lac repressor and operator and the competition between the *cI* and *cro* proteins for the same segment of DNA, we have learned an enormous amount about the interactions of proteins with DNA and their control of fundamental processes in the cell. *Introduction to Protein-DNA Interactions: Structure, Thermodynamics, and Bioinformatics* describes what we know about protein-DNA interactions from the complementary perspectives of molecular and structural biology and bioinformatics and how each perspective informs the others. A particular emphasis is on how insights from experimental work can be translated into specific computational approaches to create unified view of the field and a fuller understanding of protein-DNA interactions.

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