

Approaches to understanding the origin and management of DNA stiffness

Jim Maher

Professor and Vice Chair, Department of Biochemistry and Molecular Biology
Mayo Clinic College of Medicine
Rochester, MN

Duplex DNA is among the stiffest natural biopolymers. Our group is studying both the origin of this stiffness and the ways in which protein binding can increase apparent DNA flexibility. In one set of experiments we are testing the hypothesis that the high charge density of DNA makes an important contribution to DNA stiffness. In a second set of experiments we are measuring how sequence-nonspecific HMGB proteins enhance apparent DNA flexibility.

Example references:

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