



Showcasing research from Professor Christine Cardin's laboratory, Department of Chemistry, University of Reading, United Kingdom, and Professor Andrew Kellett's laboratory, Dublin City University, Republic of Ireland.

Re-pairing DNA: binding of a ruthenium phi complex to a double mismatch

The octahedral geometry of a small ruthenium complex is key in generating the kinked and bulged DNA structure described in this paper. We interpret a remarkable elevation of DNA melting temperature we noted when the lambda enantiomer of the complex is incubated with TATA containing DNA sequences. The strong specific binding is explained by the bulge structure seen here.

As featured in:



See Christine J. Cardin *et al.*,  
*Chem. Sci.*, 2024, 15, 9096.