



NABANITA SAIKIA

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Background

PhD (Simulation of Biomolecules with Carbon Nanomaterials), 2014

Postdoctoral Research Associate:

IIT Bombay (2014), Univ. of Akron and Univ. of Colorado Boulder (2015-2016)

Areas of research interest/expertise

Computational Drug Delivery

- ✓ Functionalization of nanomaterials with biomolecules
- ✓ Molecular drug targeting onto proteins

Biorecognition, Self-Assembly and Interfacial Properties of Nanomaterials

- ✓ Structure and energetics of noncanonical DNA base pairs
- ✓ Self-assembly of noncanonical DNA nucleobases on 2D nanomaterials

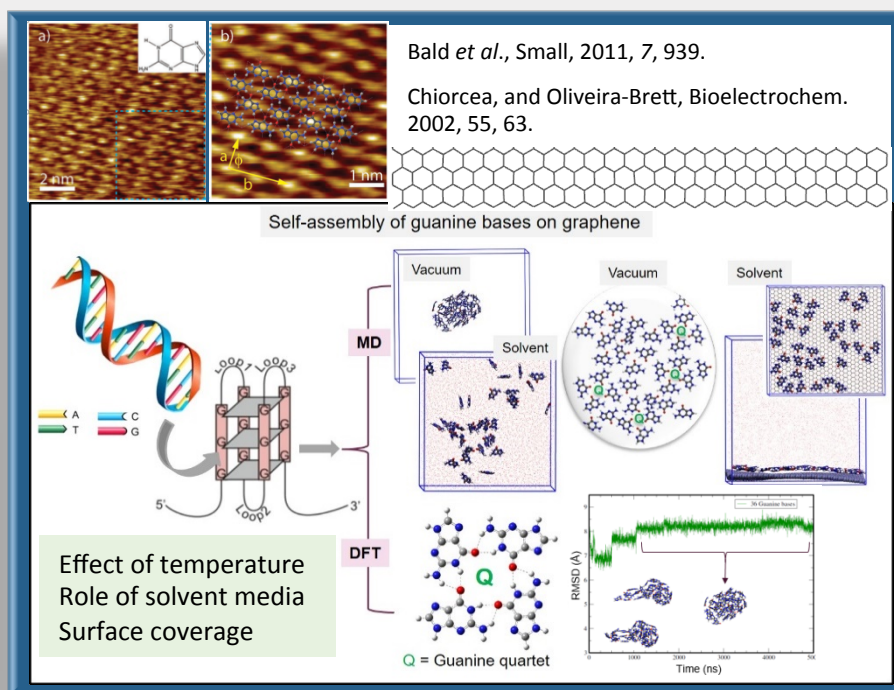
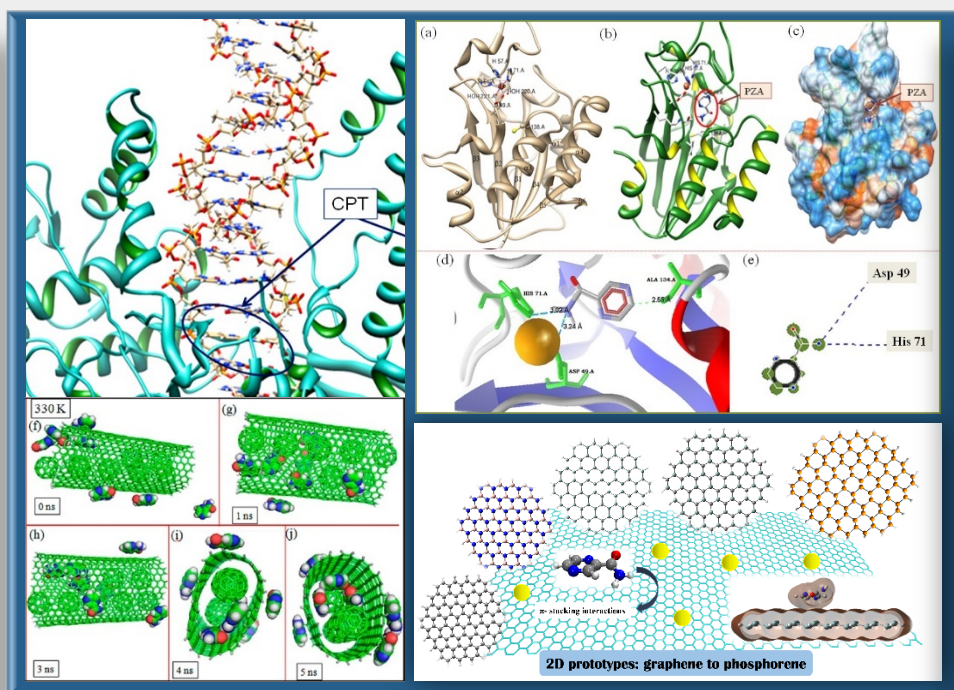
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Research Highlights –

Emergent Frontiers in Nanomaterials for Biomolecular Recognition and Self-Assembly

➤ Nanomaterials in Drug Delivery

➤ Self-Assembly on Graphene



Future Directions -

Self-assembly, interfacial properties, protein simulation and biosensing applications

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