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Interfacial Analysis of siRNA Complexes with Pol-ethylenimine (PEI) or PAMAM Dendrimers in Gene Delivery

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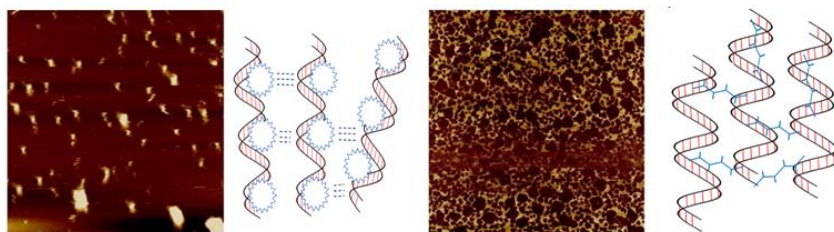
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Highlights Polymer-siRNA complexation and impact on interfacial adsorption

- Size and structure of polymeric vector influences the complexed siRNA conformation
- PAMAM-siRNA complexes adsorb as globular shaped particles
- Adsorbed conformation of PEI-siRNA complexes is concentration dependent
- PEI-siRNA complexes form a network covering the surface at higher PEI concentration

Graphical abstract

Polymer architecture directs siRNA complexation and subsequent adsorption behaviour



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Abstract

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