

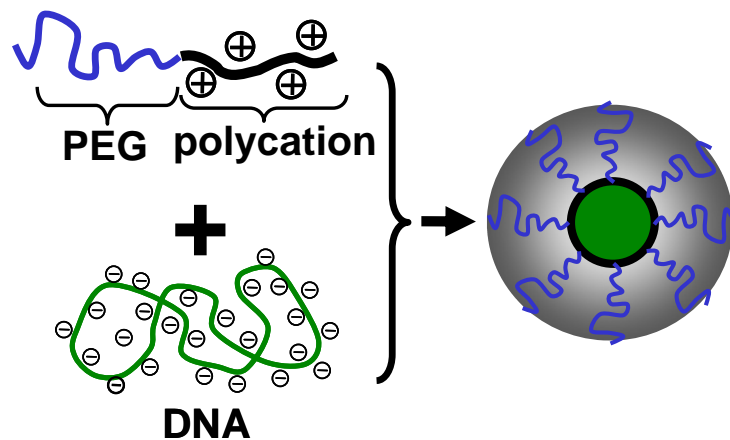
Well-defined Diblock Copolymers for Gene Delivery

Chun Wang (PI), Rupei Tang

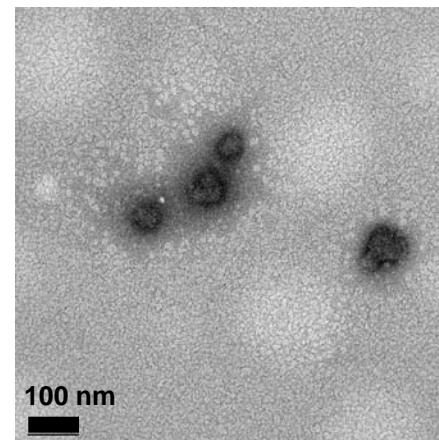
Biomedical Engineering, University of Minnesota

NNIN Facility utilized: Characterization Facility

- Diblock copolymers for gene delivery
 - ◆ Inspired by highly defined yet dynamic structures of viruses
 - ◆ Precisely defined block polymers synthesized via controlled “living” polymerization



- Transmission electron microscopy
 - ◆ Polyethylene glycol (PEG)-polycation diblock copolymers condense DNA electrostatically into nanoparticles



- Publications
 - ◆ R. Tang, N. Palumbo, C. Wang, “Well-defined Diblock Copolymers Synthesized by Atom Transfer Radical Polymerization for Gene Delivery”. *Proceedings of the 34th Annual Meeting of the Controlled Release Society*, July 2007, Long Beach, CA