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“Multifunctional Polymer–Based Drug Nanocarriers for Various Biomedical Applications”

Multifunctional polymer–based drug/agent nanocarriers can improve many of the pharmacological properties of free drugs/agents including higher solubility in aqueous solutions, better *in vivo* chemical stability, longer plasma half–time, controlled drug release, as well as specific tissue/cell targeting abilities. As such, they have been extensively explored for various biomedical applications. During this presentation, I will discuss a number of unique multifunctional drug/agent nanocarriers recently engineered in my lab, particularly a family of unimolecular nanoparticles conjugated with various targeting ligands that have been used to treat and diagnose a number of diseases including cancers, vascular diseases, and eye diseases.

**Monday
March 13th**

3:30 p.m.

**Room 1315
Chemistry**

**Materials
Chemistry Seminar**