

Nanoparticles for targeted cancer therapy



Dr. Jianjun Cheng, PhD

Dept of Bioengineering Material Science and Engineering,
University of Illinois at Urbana-Champaign

Nanotechnology is making significant impact in many areas of healthcare. There is a drastic growing interest in the integration of nanotechnology with medicine to give unprecedented benefit to disease treatment. Biodegradable polymeric nanomedicines have been extensively used in cancer drug delivery. Polymer nanoparticles can accumulate in tumor tissues after systemic administration, and their biodistribution is largely determined by their physical and biochemical properties, such as particle size, nature of the encapsulated drug, and surface biochemical properties. We are developing polyester-based nanoparticles for controlled chemotherapy drug delivery. Taxane-encapsulated or conjugated polymer nanoparticles are prepared with precisely controlled sizes and surface morphology, and used for *in vitro* and *in vivo* targeted anticancer treatment.

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Monday 12:00 noon

**Small Animal Clinic Auditorium (SAC 80)
1008 West Hazelwood Drive
College of Veterinary Medicine**



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For more information contact Nikki Hausmann at 333-4291
or nhausman@uiuc.edu