

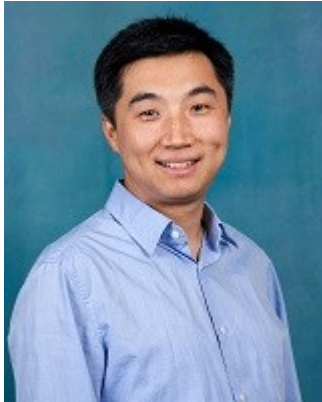
Targeted delivery of biologics

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Nanoparticles in the 1-10 nm size range are of considerable current interest, not only because of their unique size-dependent properties but also their dimensional similarities with biological macromolecules (e.g., nucleic acids and proteins). These similarities could allow an integration of nanotechnology and biology, leading to major advances in medical diagnostics, prognostics, and targeted therapeutics. In this talk, I present recent development of bio-inspired nanoparticles with for targeted delivery of biologic therapeutics.



Prof. Xiaohu Gao received his Ph.D. degree in bioanalytical chemistry from Indiana University, Bloomington, and his postdoctoral training from the Department of Biomedical Engineering at Georgia Tech and Emory University. He became a faculty member in the Department of Bioengineering at the University of Washington in 2005. He received the NSF CAREER Award in 2007, and has been a member of the American Chemical Society (ACS) and Biomedical Engineering Society (BMES) since 2003. He is also an elected fellow of AIMBE (the American Institute for Medical and Biological Engineering, class 2013). Dr. Gao's research interest spans over biomedical nanotechnology, molecular engineering, molecular imaging, and therapeutics. He has developed a track record in performing innovative and multidisciplinary research and has made contributions to the field of bionanotechnology and cancer imaging. He has published 85 peer-reviewed papers with a total citation > 20,000 times according to Google Scholar).