

## Smart Nanomaterials for Biomedical Imaging and Therapy

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Nanomaterials are expected to be the core technology in the area of nanomedicine, that will lead the future technology trend. Recently, many researchers are focusing on the development of nanomaterials that can diagnose and treat cancer at the same time, by combining imaging agents, photosensitizers for photodynamic therapy and targeting antibody with anticancer drug. The creation of nanomaterials has substantially influenced many areas including biology and medicine. This lecture will focus on our rational design of so-called “smart nanomaterials” with multifunctionality, and their potential applications for biomedical imaging and therapy.