

Rice / Bioengineering / Sheng Tong, Ph.D.

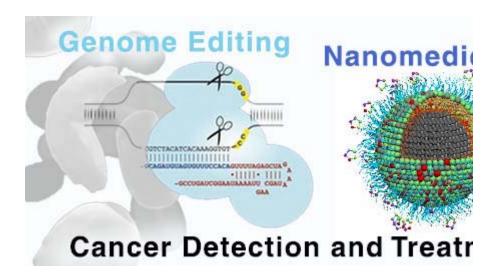


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Associate Research Professor

Laboratory of Biomolecular Engineering and Nai

Sheng Tong, Ph.D.



## **Bio Sketch**

Sheng Tong develops nanotechnologies for the early determined and many other human diseases. Currently, his research Engineering and Nanomedicine focuses on the developm versatile nanomaterial that can be used for in vitro diagnoral remote control of biological processes.

Iron oxide nanoparticles (IONPs) are composed of wüstite nanometers in diameter. In particular, magnetic iron oxide can produce strong T2 signals in magnetic resonance imaging of various disease processes. MNPs can be heat feature has been extensively explored for cancer hyperthewith bulk magnets, MNPs experience a force in external reprovide a means for magnetic targeting of therapeutic age



## Education

Postdoctoral Fellow, Biomedical Engineering, University of California at San Diego (2003-2006)

Ph.D., Biomedical Engineering, Duke University (2003)

M.S., Mechanical Engineering, Peking University (1998)

B.S., Mechanical
Engineering, University of

Working in the Bao lab, T fundamental biophysics a developed novel method: copolymers. The package elucidating the mechanis magnetic mobility. Combitoward using MNPs to im Examples include loading hyperthermia and chemo photothermal therapy. To to engineer MNPs for mo

Prior to his research at R the Wallace H. Coulter D Institute of Technology. F Excellence in Nanotechn Cardiovascular Nanomec

Tong has a doctorate dec Professor Fan Yuan's res mechanisms of molecula drug delivery to solid tum Science and Technology of China (1995)