



NCI Alliance for Nanotechnology in Cancer

Researchers at the Wake Forest University School of Medicine, funded in part by a Pathway to Independence Award in Cancer Nanotechnology Research, are developing new tools for the detection and treatment of cancer based on a hybrid material made of carbon and nitrogen-based tubes combined with tiny gold particles. This image shows the bamboo-like structure of nitrogen-doped carbon nanotubes, 50 nm in diameter and 500-1000 nm in length, to which 10 nm spherical gold particles have been linked. This novel material can be traced in the body by using x-ray and heat from exposure to laser energy. This combination may allow surgeons to identify and treat tumors that are inaccessible to current surgical techniques.

Image Credentials: Julia Chifman, Ph.D., and Ravi Nandan Singh, Ph.D.

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