



Medical and Environmental Applications



Exploitable properties

1. Small size – access
2. High surface area – decorate
3. Unique optical properties
4. Unique electrical properties – nanowires



Applications

1. Optical imaging
2. Targeted drug delivery
3. Diagnostics
4. Therapeutics
5. Chemical and bio-sensors



Program

1. Characterization of nanomaterials intended for medical applications.
Steven Stern, PhD
NCI
Frederick, MD



2. Gold nanoparticle platform for molecular specific screening, diagnosis, and therapy of cancer *in vivo*.

Konstantin Sokolov, PhD

University of Texas

M.D. Anderson Cancer Center

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3. Nanomaterials for chemical sensors and biosensors

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