

NCI Alliance for Nanotechnology in Cancer Value Proposition and Introductions

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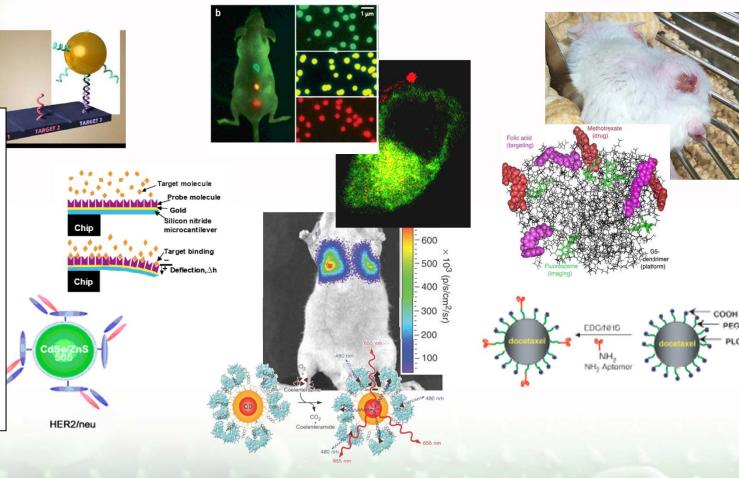
Northwestern University

Nanotechnology is an Enabler of New Solutions for Cancer



Focus Areas:

- Molecular imaging and early detection
- In vivo imaging
- Reporters of efficacy
- Multifunctional therapeutics
- Prevention and control
- · Research enablers



Early detection

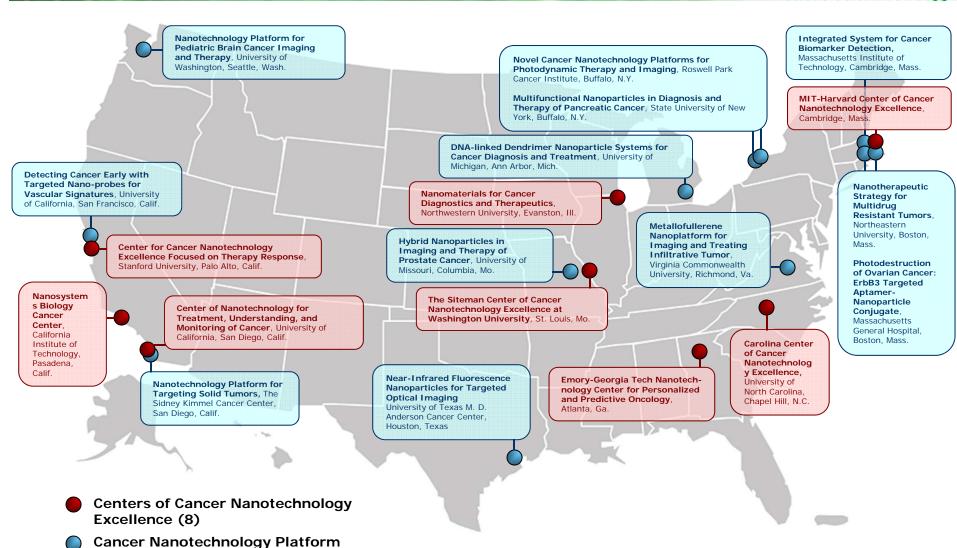
Imaging

Therapy

NCI Nanotechnology Alliance - Awards

Partnerships (12)

NCI Alliance for Nanotechnology



Multidisciplinary Team Science: Common Goal of Clinical Applications

NCI Alliance for Nanotechnology in Cancer

Oncology Sam Gambhir Steven Rosen

Jill Pelling William Gradishar Charles Sawyers

Bioinformatics

Nathan Baker
Sylvia Plevritis
May Wang
Shankar Subramanium
Warren Kibbe
Jill Mesirov

Clinic

James Baker

Sam Wickline Ralph Weissleder Philip Sharp Mike Phelps

Early Detection

In vivo imaging

Reporters of Efficacy

Multifunctional therapeutics

Prevention and control

Research enablers

Biology

Erkki Ruoslahti Leroy Hood

Rudy Juliano

Frank Szoka

Garry Nolan

Gary Borisy

Engineering/ Physical Sciences

Robert Langer

Joe DeSimone

Shuming Nie

Sadik Esener

Mike Roukes

Mike Cima

Chemistry

Chad Mirkin
James Heath
Moungi Bawendi
Mark Davis
Hongjie Dai

Agenda

NCI Alliance for Nanotechnology in Cancer

Dr. Barker Dr. Grodzinski Introductions

Dr. Steven RosenNorthwestern U.

Introduction and Status of the NCI Nanotechnology Alliance

Dr. Joseph DeSimoneU. North Carolina

Novel Platform Nanotechnologies for New Cancer Interventions

Dr. Sanjiv Gambhir Stanford U.

Integrated Nanotechnologies for Imaging and Diagnostics

Dr. James Baker Jr. U. Michigan

Multi-functional Nanotechnology Systems for Cancer Therapy

Dr. Robert Langer MIT

Leveraging Nanotechnology for Targeted Drug Delivery and Biosensing

Dr. Steven Rosen

Summary