



JOHNS HOPKINS  
UNIVERSITY

# The Institute of NanoBioTechnology (INBT)

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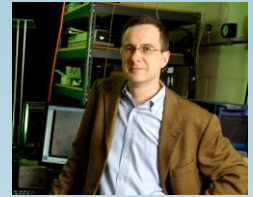
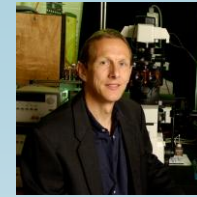
# Definition

**Nanobiotechnology:** nanoscience applied to biology, health care, and medicine

# Institute for NanoBioTechnology

**Goal:** promote multidisciplinary research in nanobiotechnology at the interface between nanoscience and medicine

## Executive Committee



Peter Devreotes  
(Medicine)

Michael Edidin  
(Arts and Sciences)

Justin Hanes  
(Engineering)

Ken Kinzler  
(Medicine)

Jonathan Links  
(Public Health)

Martin Pomper  
(Medicine)

Peter Searson  
(Engineering)

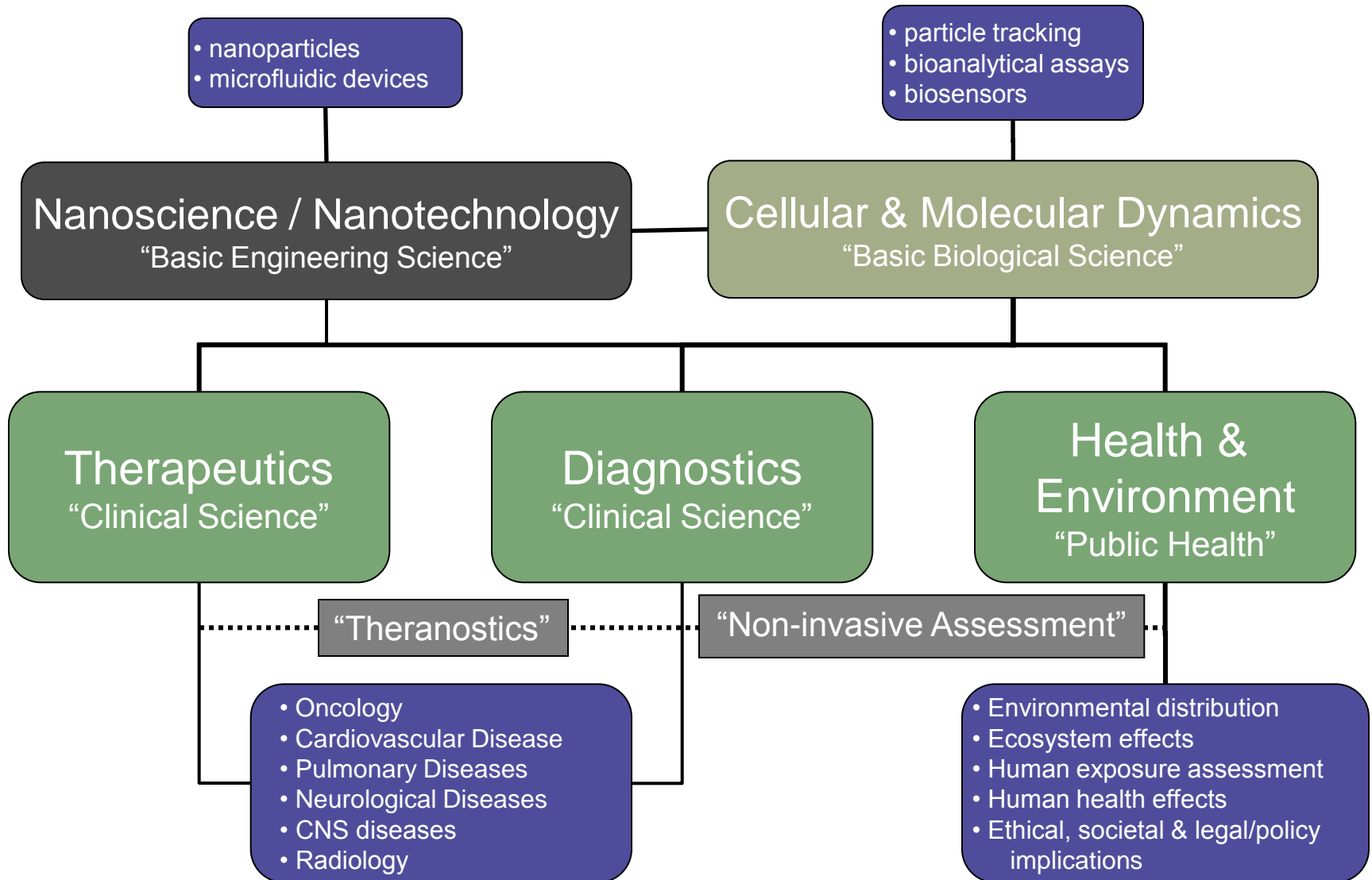
Denis Wirtz  
(Engineering)

## Executive Summary

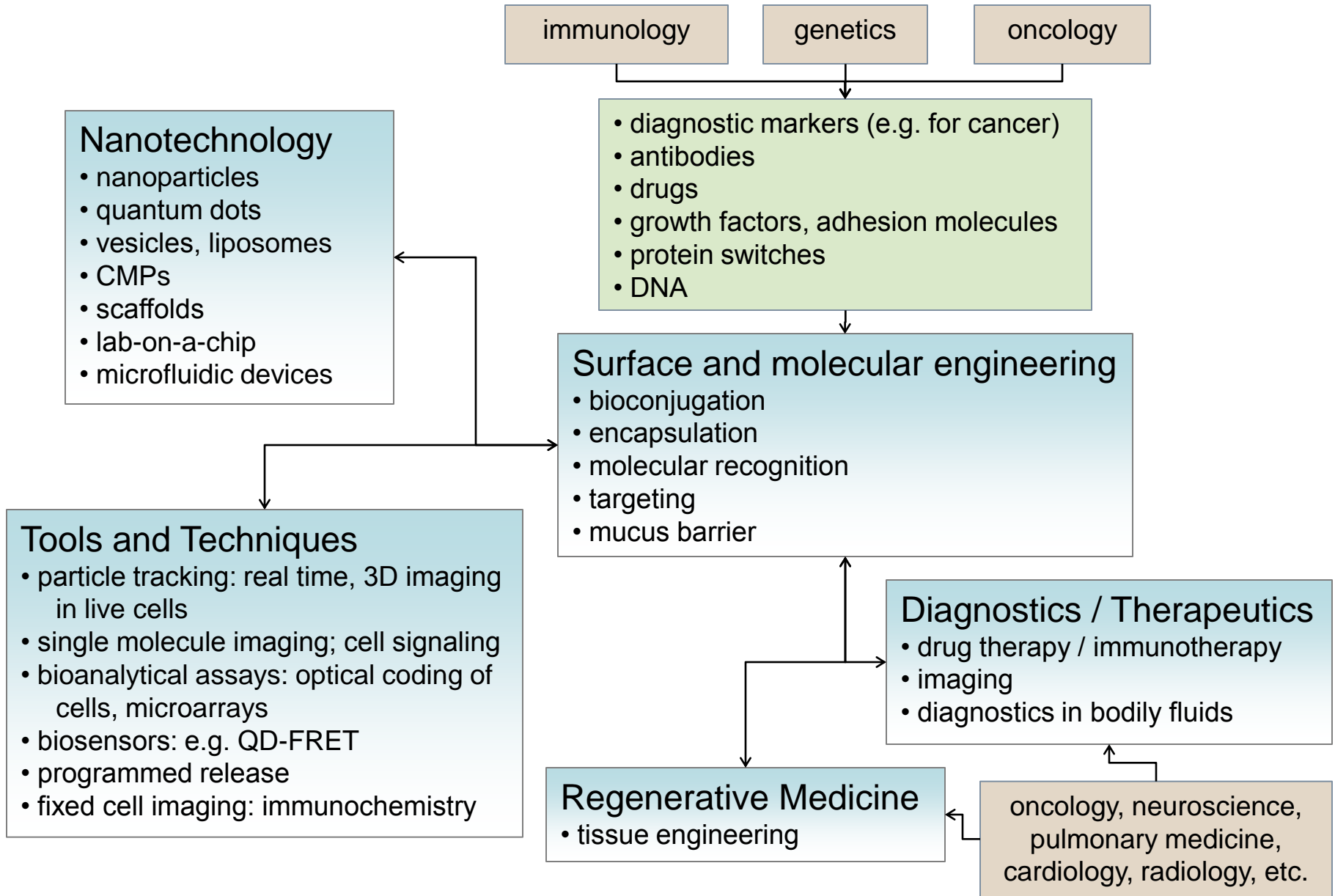
- Launched May 2006
- More than 200 affiliated faculty from 22 departments in KSAS, SoM, SPH, WSE
- Groundbreaking research in nanobiotechnology
- Innovative new training programs at the interface between engineering and medicine
  - Engineering in Oncology Center (Physical Sciences in Oncology)
  - Center of Cancer Nanotechnology Excellence
- Corporate partnership program



# Institute for NanoBioTechnology



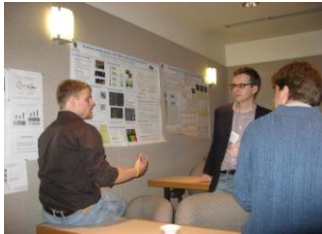
# Science and Technology



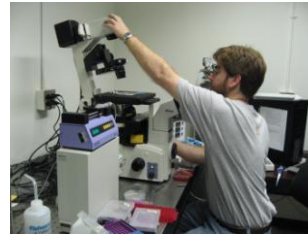
# A New Generation of Scientists and Engineers

- physical sciences
- engineering
- biological sciences
- medicine

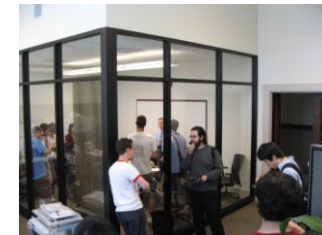
- Pre-doctoral (graduate) students: 30
- Post-doctoral fellows: 5



program retreat



nanobio lab

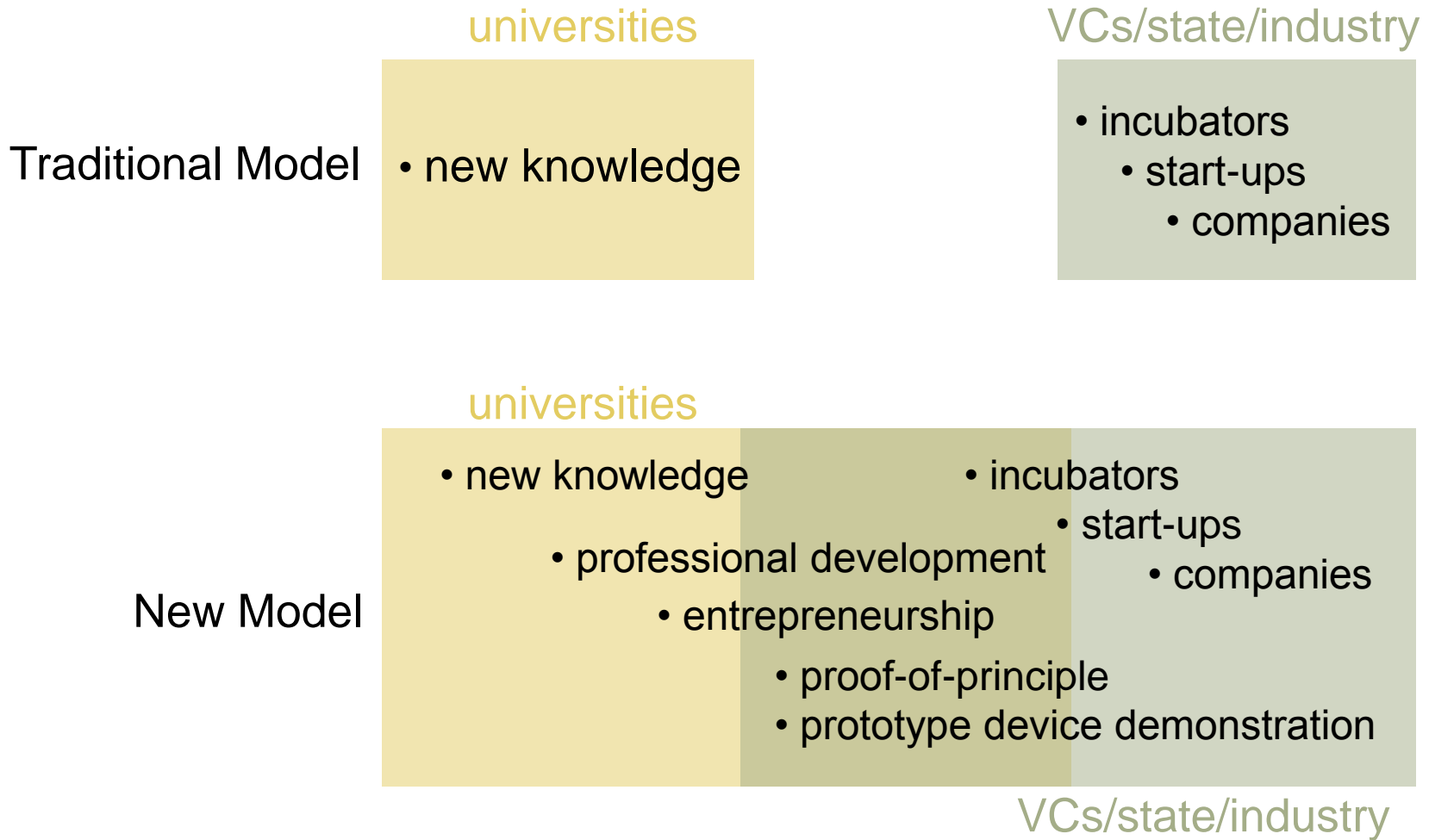


tutorial club

- Pre-doctoral (graduate) training program: NBMed (HHMI)
- Pre-doctoral (graduate) training program: IGERT (NSF) (Year 3)
- Post-doctoral training program: Cancer Nanomedicine (NIH T32) (Year 1)
- Research Experience for Undergraduates (REU): Nanobiotechnology (NSF)
- International Research Experiences for Students (IRES): Nanobiotechnology (NSF)
- Undergraduate Minor: Nanotechnology Risk Assessment & Public Policy (NSF)



# Integrative Partnerships



# Corporate Interactions

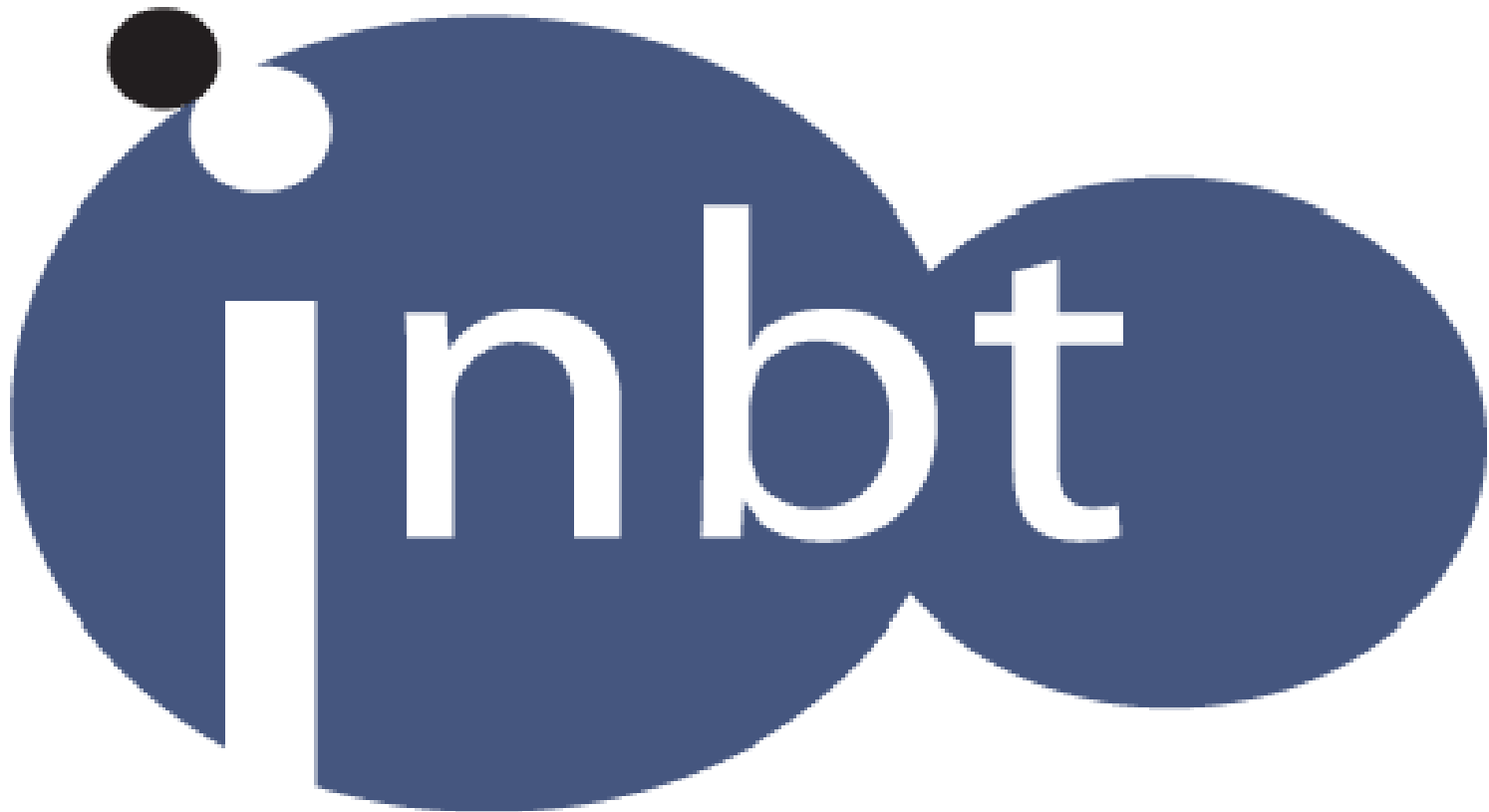
1. Undergraduate summer internships
  - in targeted research areas
  - students with specific expertise
2. Graduate internships
  - students with specific expertise
3. Student resume database
  - resumes of students in nanobio training program
4. Corporate-sponsored graduate fellowship program
5. Research collaborations
  - combined with graduate internships
6. University/industry post-doctoral fellowships
  - first year - JHU, second year partner company
7. Corporate sabbaticals at Hopkins in an INBT lab
8. Other



potential  
employees

new  
technology

new  
tools, techniques,  
or expertise



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