

# Florida Center of Excellence for Biomolecular Identification and Targeted Therapeutics

FCoE-BITT



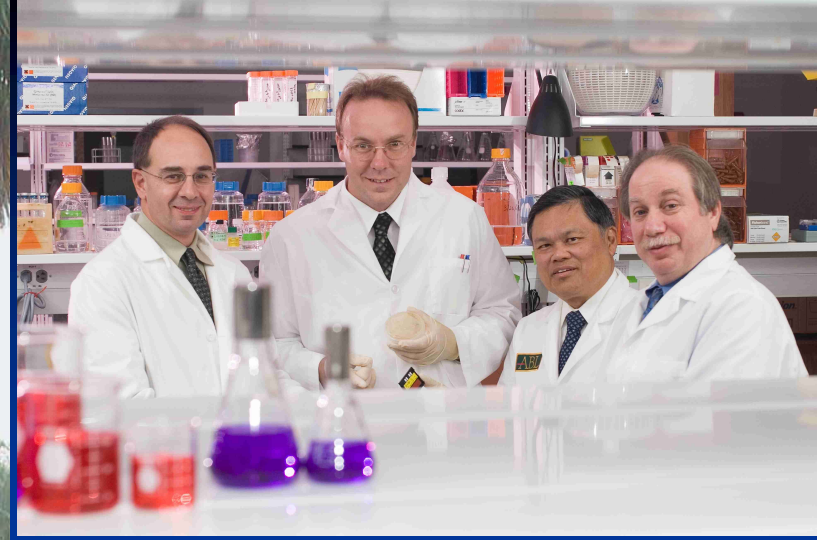
2006  
TECHNICAL  
PROPOSAL

Volume I

University of South Florida



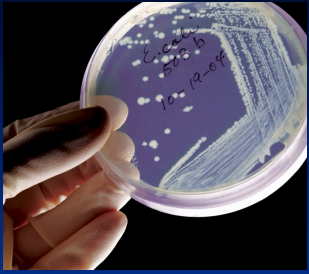
Florida Center for Excellence  
for Biomolecular Identification  
& Targeted Therapeutics



## 2006 Florida Centers of Excellence (\$30 million)

- 32 proposals submitted
- 6 proposals funded
- FCoE-BITT proposal highest ranked
- \$8 million from State and match from USF



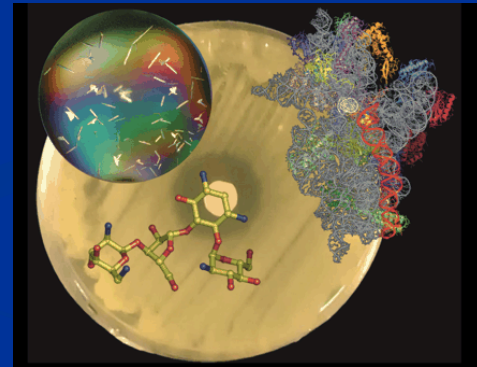
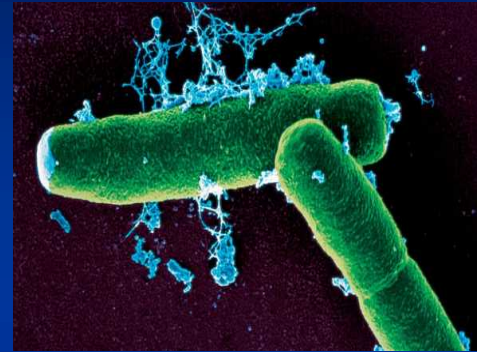


# FCoE-BITT Mission

- Move promising biotechnology products to market and commercialization in Florida
- Create jobs in the biotechnology industry in the State of Florida and Tampa Bay region
- Provide workforce development through universities and colleges to foster and support the biotechnology industry in the State of Florida
- Improve Florida's national ranking in biotechnology

# Research Focus of FCoE-BITT

- Detect and diagnose human diseases and illnesses using new and innovative techniques
- Develop new ways to treat and prevent life-threatening diseases and illnesses

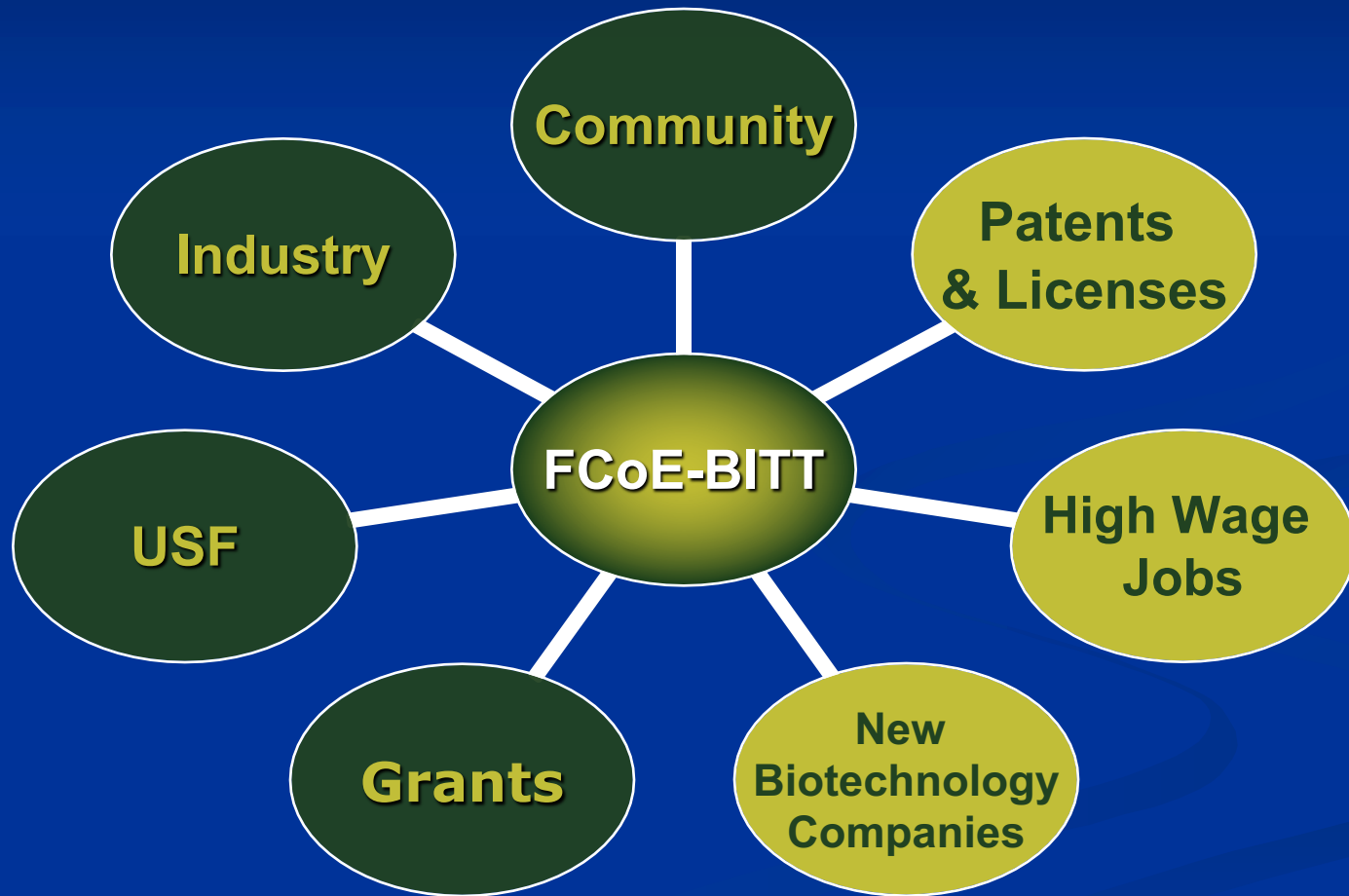


## *Translational Research*

**Discovery** —→ **Development** —→ **Commercialization**



# FCoE-BITT: The Key to Collaborative Partnerships and Leveraging Resources





CFO



Provost



President



VP Research



Assoc VP USF Health

es' Couch-crasher Web sites help cash-strapped travelers see the world. 3D <<D

# BUSINESS



money.tampabay.com

★★ Friday, November 17, 2006

## USF lands \$8M biotech grant

The state money will pay for a Center of Excellence and create hundreds of jobs.

BY KRIS HUNDLEY  
AND DONNA WINCHESTER  
Times Staff Writers

PENSACOLA — In a coup for the bay area's biotech push, Florida's board of governors voted Thursday to give the University of South Florida in Tampa \$8-million for a Center of Excellence in Biomolecular Identification and Targeted Therapeutics.

Though the grant was the biggest of six awarded, which divided up \$30-million in state funds, it came in below USF's request of \$10.5-million and a subcommittee's recommendation of \$10-million for the project. Nonetheless, USF President Judy Genshaft welcomed the news.

"This is absolutely huge," she said of the project. "It will be the first Center of Excellence for USF. The fact that we were No. 1 on the board of governors' list of proposals is really significant."

Other awards went to Florida Atlantic University (\$5-million for a Center of Excellence in Ocean Energy Technology); University of Florida (\$4.5-million for a Center of Excellence in Nanotechnology); and the University of Miami (\$4.5-million for a Center of Excellence in Nanotechnology).

"This is absolutely huge," says USF president Judy Genshaft about the project.



opper  
an  
z!

Money  
9.1

TOOLS Jobs Autos

Web Search powered by  
YAHOO! SEARCH

Buzz + f t Share XML

ge and course  
ia announced plans  
out 450 jobs.

on USF has seen,"  
is to lay off 70

employees in the coming weeks; the rest of the eliminated jobs are  
vacant. USF employs about 13,250 workers.

# State of Florida \$8 Million Award and USF Match

- Build out multidisciplinary Core Laboratories (Biotechnology Development and Testing Facility (BDT), Proteomics, NMR)
- Purchase equipment for Core Facilities (\$2 million and \$2 million USF Match)
- Faculty seed grants (\$1 million and \$1 million USF Match)
- Attraction of industry and jobs (Draper)
- Workforce development (FLATE/HCC & SPC)
- Annual scientific symposia (USF Match)
- Thirteen Graduate Multidisciplinary Scholars (USF match)
- Seven multidisciplinary faculty lines plus laboratory space & startup funds (USF Match)





# Multidisciplinary Seed Grants

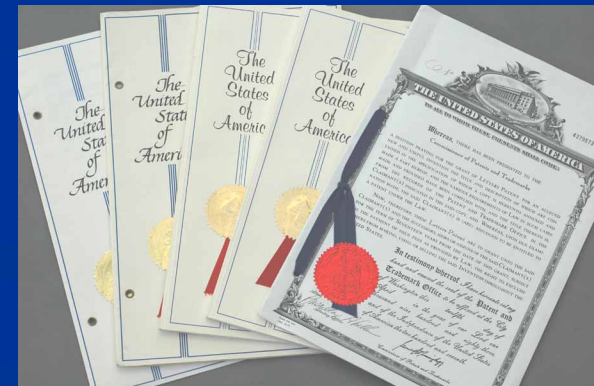
- 29 multidisciplinary faculty seed grants totaling \$2,036,584 involving 64 faculty from USF Health, Engineering, Chemistry, Physics, Cell Biology/Microbiology/Molecular Biology



- Examples of follow up external competitive funding from seed grants:
  - “GOALI: Engineering an In Vitro Assembled Stroma”, \$330,000, NSF, 2009-2012.
  - “Synthesis and Screening of Sigma Ligands for Stroke Treatment at Delayed Time Points “, \$764,174, James and Ester King/FDOH, 2009-2011.
  - “Chemical Tools for Proteomic Profiling”, \$375,000, Bankhead-Coley Biomedical Research Program/FDOH, 2008-2011.
  - “Niche Microbial Biodiversity as Sources for Malarial Drug Leads”, \$3,400,000, Medicines for Malaria Venture, 2008-2010.

# Industry and Spinoff Investments

- Draper Laboratory (MIT non-profit spinoff with 1200+ employees and \$420 million in annual revenues).
  - BioMEMS R&D Center at USF
  - MultiChip Module Center St. Pete
  - 165 new jobs (\$75,000 avg salary)
- USF Faculty spinoff companies
  - Nanopharma (Dr. Ed Turos); NIH and NSF SBIR/STTR Phase I and II awards (3) for drug development and delivery
- FCoE-BITT intellectual property
  - 20 invention disclosures
  - 2 licensed technologies (\$160,071 in revenues)



# Workforce Development

- Florida Advanced Technological Education Center (FLATE) – partnership with Hillsborough Community College and St. Petersburg College for workforce development: Survey highlights from Inventory for the Greater Tampa Bay Region's Biotechnology Industry:
  - 139 companies surveyed
  - Biopharmaceuticals, Medical Device Manufacturers, R&D
  - Market base: International
  - Job categories: Chemist, Research Scientist, Engineer, Laboratory Technician, Quality Control Manager
  - Skill Sets/Requirements: Laboratory Experience, Mechanical Electrical Mechanical Skills (MEMS), Biology, Computer Skills
- FCoE-BITT currently employs 14 people, including Core Facility Directors/technical staff and two new faculty associated with Molecular Medicine/Public Health and Cell Biology, Microbiology and Molecular Biology.





# FCoE-BITT Timeline

	2007		2008	2009	2010
<b>GMS Awards</b>			13		
<b>Seed Grants</b>			29		
<b>IDRB Build Out</b>					
<b>Core Equipment Purchases</b>					
<b>Cores Operational</b>	●BDT			●NMR/Proteomics	
<b>Faculty searches/hires</b>					
<b>Director Search/Hire</b>					
<b>Annual Symposium</b>	●		●	●	●
<b>Workforce Development</b>					