UC CAI
University of California Center for Accelerated Innovation

UC BRAID
October 15, 2013

Michael Palazzolo
Local and National Announcements

CTSA Central
• Posted by UCLA on Sept 30, 2013 (day before the government shutdown)

NBC Channel 4 News
• Aired October 1, 2013
Contents

• Goals
• Introduction to leadership
• Governance
• Technology Solicitation & Selection
• Technology Development
• Skills Development
Goals

Goal 1

• Engage University of California heart lung and blood disease innovators through a comprehensive education, training and mentorship program.
Goals

Goal 2

• Solicit and select technologies with high commercial potential that align with NHLBI’s mission and address unmet medical needs or significant scientific opportunity.
Goals

Goal 3

• Incubate our most promising technologies in accordance with industry requirements to facilitate their translation to commercial products that improve patient care and enhance health.
Goals

Goal 4

• Create a high-performing, sustainable infrastructure that will serve as a model to academic research centers.
Technology Development Process

- Technology Enters Center
- Project Design
- Project Plan
- Product Development
- Licensing
- Exit Center

- Project Design Team
- Project Management Team
Leadership

Michael Palazzolo, MD, PhD  
Center Director, UC CAI

Professor, UCLA

Tomas Ganz, MD, PhD  
Center Associate Director

Professor, UCLA
Leadership

Executive Committee

Gary S. Firestein, MD
Executive Committee Chair
Director, UCSD Clinical and Translational Research Institute

Lars Berglund, MD, PhD
Director, UCLA Clinical and Translational Science Center

Steven Dubinett, MD
Director, UCLA Institute for Clinical and Translational Science

Dan Cooper, MD
Director, UCSF Clinical and Translational Science Institute

Clay Johnston, MD, PhD
Director, UCSF Clinical and Translational Science Institute
Site Leaders

Campuses

Laura Marcu, PhD
UC Davis

Steven George, MD, PhD
UC Irvine

Tomas Ganz, MD, PhD
UCLA

Sotirios Tsimikas, MD
UCSD

Joseph Witztum, MD
UCSD

June Lee, MD
UCSF

Shaun Coughlin, MD, PhD
UCSF
Domain Leaders

**Diseases**

- **Tomas Ganz, MD, PhD**
  - Blood Disorders and Resources

- **Shaun Coughlin, MD, PhD**
  - Cardiovascular Disease

- **Sotirios Tsimikas, MD**
  - Cardiovascular Disease

- **June Lee, MD**
  - Lung and Sleep Diseases
Domain Leaders

Platforms

Laura Marcu, PhD
Co-Leader, Devices and Tools

Sotirios Tsimikas, MD
Co-Leader, Diagnostics

Shaun Coughlin, MD, PhD
Co-Leader, Therapeutics

Steven George, MD, PhD
Co-Leader, Devices and Tools

Joseph Witztum, MD
Co-Leader, Diagnostics

June Lee, MD
Co-Leader, Therapeutics
Skills Development Program

- Catalogs entrepreneurial course offerings on all five campuses
- Matches innovators to mentors
- Conducts webinars, symposia

Vish Krishnan
Leader, Skills Development Program
UCSD
Governance

External Selection Committee

Executive Committee

Center Director

Associate Director

Business Review Panel

Skills Development Program

Domain Areas

Therapeutics

Diagnostics

Devices

Cardiovascular

Lung & Sleep Disorders

Blood Diseases

Projects

Domain/ Site Leaders

Program Resources

Administrative & Budgetary Support

Website & Data Management

Project Management

Industry Relations & IP

CTSA Infrastructure

Evaluation & Tracking
External Advisory Board

- Consists of no fewer than 5 members
- Experienced business leaders
- Includes NHLBI Program Officer
- Advice about operations, project development

Catherine Mackey, PhD  
Former Senior VP, Pfizer  
Founder, MindPiece Partners

Francis Duhay, MD  
VP Medical Affairs and CMD, Edwards Lifesciences

Lawrence Souza, PhD  
Former Senior VP, Amgen  
Founder, Coastview Capital,
Technology Selection Overview

- RFP Pre-application
- Pre-application Review
- Full Application
- Leadership Review
- External Selection Committee Review
- NHLBI Review
- Technologies Selected for Entrance to Center
Technology Selection Timeline

- Solicitations occur three times a year, one for each platform (therapeutics, devices, diagnostics)
- RFPs for the platforms run concurrently
- Time from solicitation to prioritization by External Selection Committee takes 7 mos.
- Up to 3 technologies enter Center in yr.–1
- Awards of up to $200K
Technology Selection: Full Application

- RFP Pre-application
- Pre-application Review
- Full Application
- Leadership Review
- External Selection Committee Review
- NHLBI Review

Technologies Selected for Entrance to Center
Product Profile Example

Device Development Profile

- Unmet Clinical Needs
  - Technology / Components
  - Cost Breakout
  - Good Laboratory Practices

- Testing / Validation
  - Hardware / Software Validation
  - Animal Model
  - Pilot Human Study

- IP/FDA
  - Intellectual Property
  - FDA Device Class Approval Path
  - Commercial Partner / FDA
Exit Strategies

**Development at the Center**
- Continued evaluation by Center leadership
- Project aborted by PI
- Further management by Technology Transfer Office

**Exit Processes**
- Licensing
- Licensing not achieved

**Development Outside the Center**
- Review by Technology Transfer Office
- Low future interest
- Return IP
- High future interest
  - Further incubation or marketing

**Processes**
- Exit Processes
- Licensing
- Licensing not achieved
- High future interest
- Further incubation or marketing
- Return IP
Disseminate best practices across campuses:

- UCSD: Lab to Market, Entrepreneur Challenge
- UCSF: Entrepreneurship Programs (Idea to IPO, Lean Launchpad)
- UCLA: Business of Science
- Davis: Mentoring Programs
- Irvine: Entrepreneurship Mentoring

Online and Technology Development
- Video collection of Translation and Commercialization
- Simulation/Immersive Experience