DPBs, Collaboration, and Service

Collaboration in a BTRR (P41)
What is Collaboration in a BTRR?

“Collaborations with biomedical researchers that make use of the technology and expertise of the BTRR but are not intended to serve as either a primary driver or test bed for technology development.”

Role of DBP/Collaboration/Service
Research Cluster Organization

Biomedical Research Clusters

- Biomechanics and Blood Flow
  - Kent Bacchus
  - Mark Ellisman
  - Milind Rajadyaksha

- Microscopy and Small Scale Imaging
  - Gabrielle Kardon (Utah)
  - Bryan Jones
  - Peter van Dam
  - Nassir Marrouche (Utah)

- Cardiac Arrhythmia and Ischemia
  - Natalia Trayanova (JHU)
  - Ravi Ranjan (Utah)
  - Petr Stovicek

- Neuromodulation and Brain Source Localization
  - Tom Pilcher
  - Dagmar Sternad
  - Boston Scientific

- Microscopy and Small Scale Imaging
  - Physio Control/Stryker
  - Medtronic

CIBC Collaborations are International

DBPs
- Current DBP
- Completed DBP
- Current Collab.
- Service

Collaborators
- Jennifer Dy
- Dagmar Sternad
- Martin Styner
- Gerik Scheuermann
- Jeff Ojemann
- Tony Ball
- Carsten Wolters
- Jeff Weiss (Utah)
- Sandra Shefelbine
- Michael Okun/Kelly Foote (U Florida)
- Alvaro Pascual-Leone (Harvard)
- Don Tucker (U Oregon/EGI)
- Simon Warfield
- Deniz Erdogmus
- Niko Schiff
- Kent Bacchus
- Kent Bacchus
- Kent Bacchus
- Kent Bacchus
DBP/Lifecycle

Initial Discussion ➔ Evaluation of Need/Match ➔ Preparation of Proposal ➔ Evaluation of Proposal ➔ Implementation and Evaluation ➔ Concept and Specification ➔ Research and Development ➔ Completion

External Funding ➔ Maintenance and Service

Collaboration Process

Dissemination and Outreach ➔ Evaluation of Need/Match ➔ Placement in Research Cluster ➔ Training and Data Integration ➔ Testing & Feedback ➔ Collaborative Funding ➔ Conversion to DBP ➔ Maintenance and Service

Identification and Evaluation ➔ Allocation of Resources ➔ Evaluation and Extension ➔ Status Review

Sample Highlights: Cardiac Arrhythmia

Cardiac Arrhythmia and Ischemia

- Nassir Marrouche (Utah)
- Natalia Trayanova (JHU)
- Ravi Ranjan (Utah)
- Boston Scientific
- St. Jude (Abbot)
- Medtronic
- CardioThrive

DBP Links to Industry
Recent Highlights: Neuromodulation

Alvaro Pascual-Leone (Harvard)
Don Tucker (U Oregon/EGI)
Jeff Ojemann
Niko Schiff

The Future of DPBs

New External Grants

Initial Discussion ➔ Evaluation of Need/Match ➔ Preparation of Proposal ➔ Evaluation of Proposal ➔ Implementation and Evaluation ➔ External Funding ➔ Maintenance and Service ➔ Concept and Specification ➔ Research and Development ➔ Completion

New P41’s

Michael Okun/Kelly Foote (U Florida)
Alvaro Pascual-Leone (Harvard)
Don Tucker (U Oregon/EGI)
Nassir Marrouche (Utah)
Natalia Trayanova (JHU)
Ravi Ranjan (Utah)