DPBs, Collaboration, and Service
Collaboration in a BTRR

- DBP’s
- Collaborations
- Service

- Image and Geometric Analysis
- Visualization
- Simulation and Estimation
Role of DBP/Collaboration/Service

Cone of Influence

DBP

Collaborators

Related Scientific Community (service)

Breadth of Influence
Biomedical Research Clusters

- Biomechanics and Blood Flow
- Microscopy and Small Scale Imaging
- Neuromodulation and Brain Source Localization
- Cardiac Arrhythmia and Ischemia
Research Cluster Organization

Biomedical Research Clusters

- Biomechanics and Blood Flow
  - Alison Marsden (UCSD)
  - Jeff Weiss (Utah)

- Microscopy and Small Scale Imaging
  - Gabrielle Kardon (Utah)
  - Rai Winslow (JHU)

- Neuromodulation and Brain Source Localization
  - Michael Okun/Kelly Foote (U Florida)
  - Alvaro Pascual-Leone (Harvard)
  - Don Tucker (U Oregon/EGI)

- Cardiac Arrhythmia and Ischemia
  - Nassir Marrouche (Utah)
  - Natalia Trayanova (JHU)

DBPs

- Michael Okun/Kelly Foote (U Florida)
- Don Tucker (U Oregon/EGI)
Research Cluster Organization

Biomedical Research Clusters

- Biomechanics and Blood Flow
  - Heath Henninger
  - Kent Bacchus
  - Murat Maga
  - Alison Marsden (UCSD)
  - Jeff Weiss (Utah)
  - Sandra Shefelbine

- Microscopy and Small Scale Imaging
  - Mark Ellisman
  - Milind Rajadyhaksha
  - Gabrielle Kardon (Utah)
  - Bryan Jones
  - Rai Winslow (JHU)
  - Peter van Dam
  - Nassir Marrouche (Utah)
  - Gernot Plank
  - Natalia Trayanova (JHU)
  - Petr Stovicek
  - CardioThrive

- Neuromodulation and Brain Source Localization
  - Tom Pilcher
  - Dagmar Sternad
  - Alvaro Pascual-Leone (Harvard)
  - Michael Okun/Kelly Foote (U Florida)
  - Don Tucker (U Oregon/EGI)

- Cardiac Arrhythmia and Ischemia
  - Tomio Ball
  - Jeff Ojemann
  - Niko Schiff
  - Jeff Ojemann
  - Tonio Ball

Collaborators

- Michael Okun/Kelly Foote (U Florida)
- Don Tucker (U Oregon/EGI)
- Alvaro Pascual-Leone (Harvard)
- Gabrielle Kardon (Utah)
- Bryan Jones
- Rai Winslow (JHU)
- Peter van Dam
- Dhabi Shefelbine
- Jeff Ojemann
- Alvaro Pascual-Leone (Harvard)
- Michael Okun/Kelly Foote (U Florida)
- Don Tucker (U Oregon/EGI)
CIBC Collaborations are International

[Map showing locations with pins for current and completed DBP and collaborations.]
DBP/Collaboration Management

DBP Lifecycle

- Initial Discussion
- Evaluation of Need/Match
- Preparation of Proposal
- Evaluation of Proposal

Implementation and Evaluation

- External Funding
- Conversion to Collaboration
- Maintenance and Service

Concept and Specification

Research and Development

Completion

Collaboration Pipeline

- 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
Recent Highlights: Cardiac Arrhythmia

Cardiac Arrhythmia and Ischemia

Nassir Marrouche (Utah)

Natalia Trayanova (JHU)

Boston Scientific

Physio Control, Inc

CardioThrive

John Triedman (Harvard)

PocketDefib concept

Figure 1

SBIR & STTR
Recent Highlights: Neuromodulation

Alvaro Pascual-Leone (Harvard)
Don Tucker (U Oregon/EGI)
Jeff Ojemann
Tonio Ball

Michael Okun/Kelly Foote (U Florida)
Niko Schiff

NIH Submission
NIH R01 Submission
DBP Guests

Rai Winslow

Microscopy and Small Scale Imaging

Cardiac Arrhythmia and Ischemia

Nassir Marrouche

Jeff Weiss

Biomechanics and Blood Flow

Neuromodulation and Brain Source Localization

Kelly Foote (Michael Okin)