Research Resources at Partners Hospitals

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Agenda

- BWH
- MGH
- PHS
- HMS

- Communication
- Clinical Research
- Support Services
- Cores
- Career Development

How do I get the help I need?
What resources are available?
MGH Research Email Listserve
• Weekly email announcements of interest to MGH researchers:
  
  http://researchlistweb.partners.org/list/w/mgh/subscribeMGH.html

MGH Research Intranet
• Inventory of research-related information at one site

• Listing of Departments/Centers, Forms, Policies & Procedures, Events Calendar/Grants & Funding Information, Clinical Research Resources, etc.

• Links to key MGH, BWH and Partners resources

  http://mghresearch.partners.org/
BRI Research Intranet:

http://bwhbri.partners.org
MGH Clinical Research Program

• Study design and implementation
• IRB submission
• Budget preparation
• Education in performance of clinical research
• Biostatistical support
• Genetics and genomics consultation
• Study coordinator pool
• Project management

http://www2.massgeneral.org/crp/
Clinical Research Center

- Inpatient and outpatient study support
- Metabolic kitchen
- Nursing, technical, nutritionist staff
- Biosampling, processing
- Laboratory testing and development
- Bionutrition core
- Imaging core (MRI, MEG)

http://www2.massgeneral.org/crc/
Clinical Research at BWH

Harvard Catalyst Central

Senior VP
Barbara Bierer

Program Director
Gordon Williams

Admin Director

Investigator

“Contact Us”

Resource Facilitator

Career Development, Education, and Mentoring Services
- Structured Educational Programs
- CCI & Harvard Catalyst Courses
- Mentor Matching
- K or equivalent Programs
- BWH Courses

Administrative Resources
- Resource Facilitation
- Protocol Development
- IRB Application
- CCI Application Assistance
- Orders Development

Consultation Services
- Biostatistics
- Imaging
- Provider & Health System Research
- Genetics

Clinical Research Resources
- Inpatient Research:
  - Standard Bed Unit
  - Intensive Physiologic Monitoring Unit
- Outpatient Research:
  - 221 Longwood Ave
  - PBB A4
- Off-Unit Studies:
  - Hospital inpatient and outpatient units & clinics
  - Personnel:
    - PA, RN, MA, Technicians
    - Nutrition, Ultrasound Technicians, Coordinators
  - Specimen Processing & Laboratory Services
    - Harvard Catalyst Central Laboratory

cci@partners.org
www.brighamandwomens.org/cci
Core Lab Services

- Clinical Genetics Research Facility
- Biostatistics
- MR/PET Imaging
- Tumor Imaging Metrics
- Biospecimen Repository
- Genotyping
- DNA Synthesis and Sequencing
- Peptide Synthesis and Sequencing
- Radiation Safety
- Transgenic and Knockout Mice
- Knight Surgical Research Lab
- Microscopy and FACS

http://www.partners.org/researchcores/home.asp?subID=leftnav8
BWH Core Lab Services

- Clinical Research:
  - CCI Biostatistical Consulting Services
  - CCI Clinical Trials Center
  - CCI Human Genetics Consult Service
  - CCI Laboratory and Specimen Processing
  - CCI Nursing Standard Services
  - CCI Metabolic Phenotyping Core (Nutrition)
  - CCI Research Coordinator Network
  - CCI Translational Technology Research Program
  - Crimson Biospecimen Banking
  - Tissue and Blood Repository
  - Tumor Imaging Metrics Core

- Additional Services:
  - Antibody Core Facility
  - DNA Sequencing Core
  - Flow Cytometry Core
  - Imaging
  - Cell Culture and Microscopy Core
  - Confocal Microscopy Core
  - Transgenic Core
  - CFAR Virology Core

http://www.partners.org/researchcores/home.asp
Animal Research - MGH

Center for Comparative Medicine (CCM)
- Animal housing and veterinary care
- Small and large-animal models
- Shipping/receiving animals, quarantine services
- Investigator training in common procedures
- Regulatory compliance
  
  http://intranet.massgeneral.org/ccm/

Subcommittee on Research Animal Care (SRAC)
- Institutional Animal Care and Use Committee (IACUC) for the MGH and the Shriners Hospitals for Children
- Reviews/approves protocols for animal research
- Monitors compliance with approved protocols
  
  http://is.partners.org/aniweb
MGH Center for Faculty Development

- Established to facilitate career development of all MGH faculty.
  - Office for Clinical Careers (OCC)
  - Office for Research Career Development (ORCD)
  - Office for Women's Careers (OWC)
- Support/education regarding promotion process
- Individual counseling
- Faculty Development seminars, newsletters
- Mass General Postdoc Association

http://www2.massgeneral.org/facultydevelopment/index.html
The Center’s mission is to recruit, retain and advance a diverse faculty that represents the communities that BWH serves and trains.
Partners Resources

• Partners Research Management:  
  http://phsresearchintranet.partners.org/

• Partners Human Research Committee:  
  http://healthcare.partners.org/phsirb/

• Partners Clinical Research Office (PCRO):  
  http://www.partners.org/pcro/

• Partners Research Ventures & Licensing:  
  http://rvl.partners.org/home

• Partners Research Computing:  
  http://rc.partners.org
Partners Research Management

– Pre-Award Grant Proposal review, approval & (electronic) submission (InfoEd)
– Post-Award Financial Management (Insight)
– Subcontract Negotiation
– Billing of Sponsors
– Receiving and Posting Cash
– Financial Status Reports

http://phsresearchintranet.partners.org
Partners Human Research Office

Partners Human Research Committee
- IRB for Partners Research
- IRB applications submitted electronically through Insight (eIRB)

Human Research Quality Improvement Program
- Provides support and education to ensure optimal conduct of human research within the framework of federal regulations, institutional policies, and good clinical practice.

Human Embryonic Stem Cell Research Oversight Office
- Provides institutional oversight of hESC research

http://healthcare.partners.org/phsirb/home.htm
Partners Clinical Research Office (PCRO)

- Responsible for developing, negotiating and executing agreements for industry-sponsored clinical research
  - Clinical Trial Agreements
  - Clinical Research Support Agreements
  - Confidentiality Agreements
- Budget development service and negotiation with sponsors
- Prepares Medicare Coverage Analyses (MCA) for all non-oncology clinical research protocols
- Assistance with Medicare Petitions & renewals for device studies

http://www.partners.org/pcro/default.aspx
Partners Research Ventures and Licensing

– Negotiates (non-clinical trial) corporate research and material transfer agreements
– Manages intellectual property
– Identifies opportunities and markets ideas to industry
– Develops agreements for commercialization of intellectual property
– Provides advice on start-up opportunities
– Coordinates institutional service agreement review

http://rvl.partners.org/home
Partners Research Applications Group

- Development and maintenance of IT systems supporting research administration
- InfoEd
  - Proposal Development
  - Proposal Tracking
- Insight
  - Financial Management
  - Time and Effort Reporting
  - Conflict of Interest Disclosure
  - IRB and SRAC Application Submission
  - Clinical Trial Budget Builder
Partners Research Computing

- Cloud/cluster computing
- Data management and storage
- EDC
- Survey tools
- RPDR

http://rc.partners.org/
Research Patient Data Registry

• User-defined queries of patient populations with defined attributes
  – Aggregate results
  – Real time
  – Database of > 4 million Partners patients

• IRB-approved acquisition of more detailed clinical/demographic data with patient identifiers
Research Patient Data Registry

1) Queries for aggregate patient numbers
- Warehouse of in & outpatient clinical data
- 3.6 million Partners Healthcare patients
- 980 million diagnoses, medications, procedures, laboratories, physical findings, & genomics coupled to demographics & visits
- Authorized use by faculty status
- Clinicians can construct complex queries
- Queries cannot identify individuals, internally can produce identifiers for (2)

2) Returns detailed patient data
- Start with list of specific patients, usually from (1)
- Authorized use by IRB Protocol
- Returns contact and PCP information, demographics, providers, visits, diagnoses, medications, procedures, laboratories, microbiology, reports (discharge, LMR, operative, radiology, pathology, cardiology, pulmonary, endoscopy), and images into a Microsoft Access database and text files.
Set of patients is selected through RPDR and data is gathered into a data mart.
Partners Center for Personalized Genetic Medicine

– Laboratory of Molecular Medicine
  • Genetic testing
  • Genetic test development

– PCPGM Core Services
  • DNA sequencing
  • DNA/RNA microarray analysis
  • Genotyping
  • Biosample processing, management and storage
  • Consultations

– PCPGM Educational Programs
  http://pcpgm.partners.org
Harvard CATALYST

- Education in clinical and translational research
- Clinical Research Centers
  - Inpatient and outpatient study support
  - Nursing, technical, nutritionist staff
  - Biosampling, processing
  - Laboratory testing and development
- Consultation
  - Biostatistics
  - Genetics
  - Imaging
  - Bioinformatics

http://catalyst.harvard.edu
Harvard CATALYST

- Regulatory - single IRB review
- IT resources
  - SHRINE
  - Pathology specimen locator
  - EDC
- Faculty connectivity
  - Web portal
  - Faculty profiles
  - Funding opportunities
- Pilot grants
  - 50K x 1 year, cross-institutional
  - Research navigators

http://catalyst.harvard.edu
Research Resources

- Identify collaborators
  - Profiles
  - Medvane
• Request advice
  – Biostatistics
  – Genetics
  – Imaging
  – Provider & Health Systems Research

http://catalyst.harvard.edu
Educational Resources

• Degree programs
  – Biomedical Informatics
  – Biostatistics
  – Clinical Investigation
  – Clinical Science
  – KL2 training program
• Non-degree courses
  – Genetics
  – Imaging

http://catalyst.harvard.edu
Grant Resources

- Projects
- Finding grant opportunities
- Finding research collaborators
- Managing online collaboration
- Get advice from colleagues
- Managing your applications

http://catalyst.harvard.edu
Managing Harvard in all its complexity
Questions
and
Thank you

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