

(Graduated ARCs Continued)

CALCIUM HOMEOSTASIS IN HEALTH AND DISEASE (2010-2014)

Drs. Victoria Bolotina (bolotina@bu.edu) and Mike Kirber (mkirber@bu.edu) [into Parkinson's Disease Initiative]

NANOTHERANOSTIC PLATFORMS FOR CANCER AND VASCULAR DISEASE (2011-2015)

Drs. Victoria Herrera (vherrera@bu.edu), Joyce Wong (jywong@bu.edu), Mark Grinstaff (mgrin@bu.edu), and Karl Karlson (karl.karlson@bmc.org) [into a Nanomed Program]

METABOLIC DISEASES AND INSULIN RESISTANCE: STUDIES IN PATIENTS UNDERGOING BARIATRIC SURGERY (2012-2015)

Drs. Neil Ruderman (nrude@bu.edu), Caroline Apovian (capovian@bu.edu) and Konstantin Kandror (kkandror@bu.edu)

COMPUTATIONAL GENOMIC MODELS OF ENVIRONMENTAL & CHEMICAL CARCINOGENICITY (2012-2015)

Drs. Stefano Monti (smonti@bu.edu) and David Sherr (dsherr@bu.edu) [into a CTSI program]

Examples of Institutional Initiatives

- The Evans Center co-developed with the Nanoscience Center RFAs in Nanomedicine
- The Evans Center co-developed with the Nanoscience and Cancer Centers the R25 NCI-funded training program in Nanomedicine (2010 ->)
- The Evans Center co-developed with the Department of Biochemistry Institutional Interdisciplinary Thematic Seminars
- Evans Center-initiated new interdisciplinary graduate courses (Biological Core Technologies; Nanomedicine)
- Evans Center-initiated Masters Programs (Biological Core Technologies; Nanomedicine)

Expected Achievements of ARCs

- Reasonable expectation of continued programmatic growth, and a plan for inclusive and open exchange of ideas
- Extramural grant funding obtained following establishment of the ARC, particularly co-PI RO1 grants
- Successful implementation of a structure to support predoctoral and postdoctoral training in content area
- Structure and content should complement and not overlap or compete with existing university entities
- Scientific incubator for basic discoveries with potential application via the CTSI to translational research
- Successful ARCs could eventually gain a status of a program or center



Major Goals of the Evans Center and the ARCs

- Form ARCs, each consisting of an assembly of investigators, including an ARC director, who focus on a research theme, explored with the aid of different disciplines and technologies to advance Research and Discovery as it applies to Disease States
- Enhance the educational mission at graduate and postgraduate programs
- Assist in envisioning and developing current and new institutional research fields
- Reach out to The Clinical and Translational Science Institute (CTSI) and other centers and institutes for further research and core development
- Provide an opportunity for faculty at BU to become Evans Center's members (regardless of ARC's affiliation) and to benefit from ongoing seminars, mini-symposia, immediate knowledge of and access to data-bases and reagents generated by ARCs etc.

Expected Support by the Evans Center

- Grant Support for each ARC for 1-3 years, pending upon yearly review
- Travel Awards to present (preferably as a talk) ARC work in meetings
- Funds for annual mini-symposia and periodical seminars to enhance knowledge and collaborations
- Administrative Support with regard to ARC budget management, symposia, web site update, etc.
- Administrative Support with preparation of large institutional grants
- Research and educational support to DOM graduate programs

Evans Fellows Awardees



Dr. Tamar Aprahamian (2013), Dr. Gyungah Jun (2013)

Dr. Marc Liesa, Dr. Cesar Sommer and Dr. Francesca Seta (2014)

Research Collaborators Awards

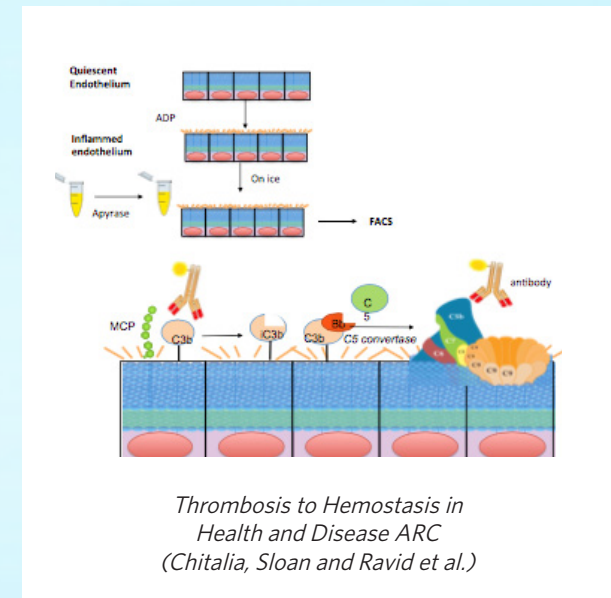
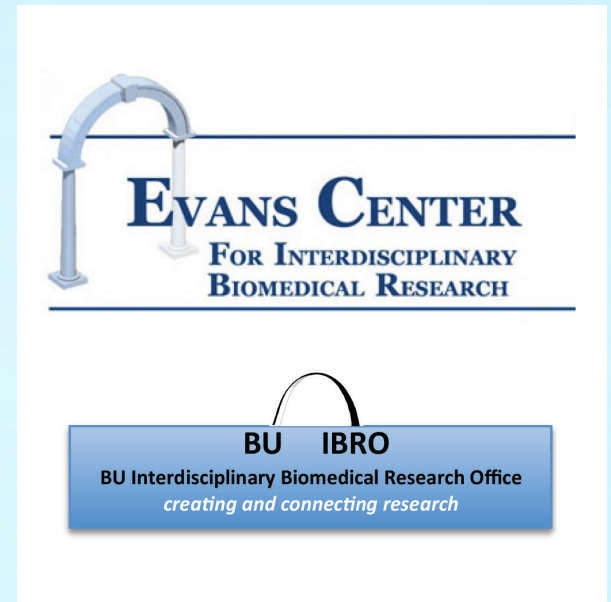


Maria Kukuruzinska (2016)
Carmela Abraham (2015)
Konstantin Kandror (2015)
Bela Suki (2015)
Louis Gerstenfeld (2014)
Mark Grinstaff (2014)
Barbara Nikolajczyk (2014)
Donald Hess (2013)
Karl Karlson (2013)
Kathleen Morgan (2013)
Noyan Gokce (2012)
Gary F. Mitchell (2012)
Paul Pilch (2012)
Joyce Wong (2012)
Mario Cabodi (2011)
Bennett Goldberg (2011)

Outstanding Mentors Recognition



Richard A. Cohen and Bennett Goldberg (2016)





ARCs (ARC Directors)

MOBILE and ELECTRONIC HEALTH (2017-)

Drs. Belinda Borrelli (belindab@bu.edu); Lisa Quintiliani (Lisa.Quintiliani@bmc.org) and Julie Keysor (jkeysor@bu.edu)

SYSTEMS BIOLOGY APPROACHES TO MICROBIOME RESEARCH (2017-)

Drs. Daniel Segrè (dsegre@bu.edu) and Evan Johnson (wej@bu.edu)

PRECISION MEDICINE FOR ALZHEIMER DISEASE AND RELATED DISORDERS (2017-)

Drs. Rhoda Au (rhodaa@bu.edu), Alice Cronin-Golomb (alicecg@bu.edu) and Lindsay Farrer (farrer@bu.edu)

ETIOLOGY AND PATHOGENESIS OF ORAL CANCER (EPOC) (2014-)

Drs. Maria Kukuruzinska (mkukuruz@bu.edu), Avrum Spira (aspira@bu.edu) and Maria Trojanowska (trojanme@bu.edu)

THROMBOSIS TO HEMOSTASIS IN HEALTH AND DISEASE (2014-)

Drs. Vipul Chitalia (vichital@bu.edu) and Katya Ravid (kravid@bu.edu)

PRESERVING CHILD HEALTH AND PREVENTING UNHEALTHY AGING: The PneumoniARC (2015-)

Dr. Jay Mizgerd (jmizgerd@bu.edu)

ARC Programs (Graduated ARCs)

REGENERATIVE MEDICINE: iPS Cell Bank (2009-2013)** CENTER FOR REGENERATIVE MEDICINE

**Drs. Darrell N. Kotton (dkotton@bu.edu), Gustavo Mostoslavsky (gmostos@bu.edu), and George Murphy (gjmurphy@bu.edu)

MITOCHONDRIAL ARC: MITOCHONDRIA IN HEALTH AND DISEASE (2009-2014)

Drs. Orian Shirihai and Andrea Havasi (ahavasi@bu.edu)

SEX DIFFERENCES IN ADIPOSE TISSUE BIOLOGY AND RELATED METABOLIC DISEASES (2009-2015)

Drs. Susan Fried and Paul Pilch (ppilch@bu.edu)
[co-supports BNORC programs]

PROTEIN TRAFFICKING AND NEURODEGENERATIVE DISEASES (2009-2016)

Dr. Lindsay Farrer (farrer@bu.edu) [into a Program in Personalized Medicine]

MOLECULAR, BIOMECHANICAL AND GENETIC MECHANISMS OF ARTERIAL STIFFNESS (2010-2016)

Drs. Richard A. Cohen, Kathleen Morgan (kmorgan@bu.edu) and Francesca Seta (setaf@bu.edu) [into a Research Core]

MISSION

The goal of the ECIBR and IBRO is to promote growth and discovery in emerging interdisciplinary biomedical research and educational areas by providing faculty affiliated with the Department of Medicine (DOM) and with various schools, departments and centers at Boston University (BU) a dynamic, interdisciplinary organizational structure, which allows investigators with different areas of expertise to collectively address mechanisms of disease, and to facilitate new training opportunities. The Evans Center was founded in March 2009, at that time mainly supported by the DOM Evans Foundation, providing the groundwork and tools to facilitate biomedical team science to integrate research and researchers all across BU. The reach of these efforts is now expanding to the Charles River Campus through additional collaboration with the Clinical & Translational Science Institute (CTSI). In 2015, the Boston University Interdisciplinary Biomedical Research Office (BU IBRO) was created under the auspices of the office of BU Vice President and Associate Provost for Research to enhance training experiences and new opportunities for interdisciplinary biomedical research.

ADDITIONAL INFORMATION

Dr. Katya Ravid

Founding Director, Evans Center IBR & IBRO

Ms. Robin MacDonald

Executive Assistant
remac@bu.edu

bumc.bu.edu/evanscenteribr

www.bu.edu/research/ibro

Boston University School of Medicine

Affinity Research Collaboratives (ARCs)

Faculty affiliated with the Evans Center hold academic appointments with different departments. The Center provides opportunities for collaborations within Affinity Research Collaboratives (ARCs) organized around foci of common research interests. The extraordinary strength in biomedical and physical sciences at Boston University, and the support and development of the ARCs create opportunities for new interdisciplinary approaches to both research and training in biomedical research.

Joining an ARC

- Investigators from all over BU are encouraged to form or join an ARC, which consists of several investigators, including from DOM;
- The ARC selects its own Director;
- Most ARCs are initiated by the faculty, and at times by the Evans Center's Director;
- A review panel prioritizes the ARC proposal based upon uniqueness of the opportunity, scientific quality and promise;
- Joining an ARC after it has been formed is also possible, in consultation with the ARC and Evans Center's directors;
- Joining multiple ARCs is allowed

Evans Center Metrics: Nov. 2009-2015

(Note the high % of funding)

12 ARCs	Publications (Co-PIs)	Grants (Co-Investigators)		Presentations at Meetings	Core Participants*	# Trainees participating in ARC projects	
		Applied	Funded (R01, R21, U01 or PPG, etc.)			Pre	Post
TOTALS	421	222	123	219	100	97	50

↳ Total number of ARC members from across campuses is 194; 15 from other institutions

* Core participants include ARC funded members, while the total number of ARC members of Evans Center members is greater.
See: Ravid, K... Coleman, D. (2013) J. Academic Medicine 88(2):179-184.