Mission
The goal of the Evans Center is to promote growth and discovery in emerging interdisciplinary biomedical research and educational areas by providing 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.

Although mainly supported by the DOM Evans Foundation, the Evans Center was founded in March, 2009 to integrate research and researchers all across BU.

Evans Fellows Awardees
Dr. Tamar Aprahamian (2013), Dr. Gyuungah Jun (2013)
Dr. Marc Liesa, Dr. Cesar Sommer and Dr. Francesca Seta (2014)

Evans Center Metric: from November 2009-November 2015 (note the high % of funding)

<table>
<thead>
<tr>
<th>ARC Programs (Graduated ARCs)</th>
<th>REGENERATIVE MEDICINE: iPS Cell Bank (2009-2013) ** CENTER FOR REGENERATIVE MEDICINE **</th>
<th>Drs. Darrell N. Kotton (<a href="mailto:dkotton@bu.edu">dkotton@bu.edu</a>), Gustavo Mostoslavsky (<a href="mailto:gmostosl@bu.edu">gmostosl@bu.edu</a>), and George Murphy (<a href="mailto:gjmurphy@bu.edu">gjmurphy@bu.edu</a>), ARC Directors</th>
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<tbody>
<tr>
<td></td>
<td>** MITOCHONDRIAL ARC: MITOCHONDRIA IN HEALTH AND DISEASE (2009-2014) **</td>
<td>Drs. Orian Shirihai (<a href="mailto:shirihai@me.com">shirihai@me.com</a>) and Andrea Havasi (<a href="mailto:ahavasi@bu.edu">ahavasi@bu.edu</a>), ARC Directors</td>
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<td></td>
<td>** PROTEIN TRAFFICKING AND NEURODEGENERATIVE DISEASES (2009-**</td>
<td>Dr. Lindsay Farrer (<a href="mailto:farrer@bu.edu">farrer@bu.edu</a>), ARC Director</td>
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<td>** SEX DIFFERENCES IN ADIPOSE TISSUE BIOLOGY AND RELATED METABOLIC DISEASES (2009-**</td>
<td>Ds. Susan Fried (<a href="mailto:skfried@bu.edu">skfried@bu.edu</a>) and Paul Pilch (<a href="mailto:ppilch@bu.edu">ppilch@bu.edu</a>), ARC Directors</td>
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<td></td>
<td>** MOLECULAR, BIOMECHANICAL AND GENETIC MECHANISMS OF ARTERIAL STIFFNESS (2010-**</td>
<td>Ds. Richard A. Cohen (<a href="mailto:racohen@bu.edu">racohen@bu.edu</a>), Kathleen Morgan (<a href="mailto:kmorgan@bu.edu">kmorgan@bu.edu</a>) and Francesca Seta (<a href="mailto:setaf@bu.edu">setaf@bu.edu</a>), ARC Directors</td>
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Evans Center Metric: from November 2009-November 2015 (note the high % of funding)

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<tr>
<th>T1 ARCs</th>
<th>Publications (Co-PIs)</th>
<th>Grants (Co-Investigators)</th>
<th>Presentations at Meetings</th>
<th>Core Participants*</th>
<th># Trainees participating in ARC projects</th>
<th>Pre</th>
<th>Post</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTALS</td>
<td>459</td>
<td>272</td>
<td>148 Funded</td>
<td>189</td>
<td>133</td>
<td>116</td>
<td>57</td>
</tr>
</tbody>
</table>

* 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.
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.

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 – 2013)
- 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)
- In development: Evans Center-initiated Masters Programs (Biological Core Technologies; Nanomedicine)

Expected Support by the Evans Center:
- 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

The Major Goals of the Evans Center and the ARCs are to:
- 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 post-graduate 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 Achievements of the 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, or program projects and training grants
- Successful implementation of a structure to support pre-doctoral and postdoctoral training in content area
- Structure and content should complement and not overlap or compete with existing institutes, units, centers, programs, and sections
- Scientific incubator for basic discoveries with potential application via the CTSI to the prevention, diagnosis or treatment of human disease
- Successful ARCs could eventually gain a status of a Program (and later on potentially a center)

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

Incentive for joining the center is beyond monetary, but also driven by access to novel technology, ideas, workshops, thematic interdisciplinary seminars, etc.

Nanotheranostics
(Herrera, Wong, Grinstaff and Karlson, et al.)

Mechanisms and Treatment of Arterial Stiffness
(Cohen, Morgan, Seta et al.)

Computational Genomic Models of Carcinogenicity
(Monti and Sherr et al.)

Kotton, Mostoslavsky and Murphy et al.,
Center for Regenerative Medicine, opened 2013

Adiporedoxin (Arx), a novel member of the peroxiredoxin family
(Pilch and Fried et al.)

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