

The Evans Center for Interdisciplinary Biomedical Research (ECIBR) and BU Interdisciplinary Biomedical Research Office (BU IBRO)

Founding Director: Katya Ravid, Professor of Medicine and Biochemistry and Biology, Fulbright Research Scholar

BY THE NUMBERS

ARC Outcomes and Types of Metrics for Monitoring and Evaluating Success (2009-2022). IBRO, established in 2015, serves to promote team science university-wide).

1. 22 multidisciplinary ARCs have received funding to investigate novel research topics since 2009, with about 267 core faculty participants, and **261 predocs & 198 postdocs**. Minority researchers have similar percent representation as in the faculty body.
2. 4 multidisciplinary **ARCs have engaged with 4 hubs in CTSA network**; an ARC-driven Thrombotic Microangiopathy regional Consortium; Adoption of the ARC Model by 2 hubs in the CTSA network.
3. **1,020 collaborative publications** catalyzed by ARCs, to date; 75% of co- authors had never published together prior to the ARC.
4. **586 external grants** awarded to ARC affiliated projects out of 735 applied for to date, with at least two ARC faculty in the co-PI or co-I roles.
5. ARCs catalyzed investigators from 13 schools, 30 departments & industry to form multidisciplinary research projects.
6. Average of 12 seminars, 3 workshops, 2 retreats and 4 symposia per year attracted an average of 55 investigators & 20 trainees per event.
7. Dr. Ravid co-developed Masters Programs in Nanomedicine and in Biomedical Research Technologies, currently instructed by some ARC members.
8. We rapidly respond to newly emerging biomedical research challenges, as exemplified by 6 potential preARCs in discovery phase, introduction of a new ARC focused on COVID-19 pre-clinical studies in 2020, now in its 3rd year.
9. 6 ARCs developed during 2015-2022, including a new initiative focused on Multi-Disciplinary Program to Identify Predictors of Efficacy and Resistance to Cancer Checkpoint Inhibition; Tobacco Sciences; Fibrosis: Connecting Tissues and Investigators; Thrombosis and Hemostasis; Mobile and Electronic Health
10. 4 publications about the influence of the ARC Model and best practices shared with the CTSA network.

KEYS FOR SUCCESS: THE FIVE Cs (K. Ravid)

- 1 **Capability**
Creative research ideas
- 2 **Cooperation**
Willingness to learn
- 3 **Communication**
Effective scientific exchanges
- 4 **Coaching**
Generous mentoring/insights by the Center's Director and ARC leadership
- 5 **Conditions**
Supportive resources and academic culture

PUBLICATIONS

- "Thrombotic Microangiopathy: A Multidisciplinary Team Approach."
Gordon CE, Chitalia VC, Sloan JM, Salant DJ, Coleman DL, Quillen K, Ravid K, Francis JM.
Am J Kidney Dis. 2017 Nov;70(5):715-721.
>> View at <http://bit.ly/2k9qLQ8>
- "Catalyzing Interdisciplinary Research and Training: Initial Outcomes and Evolution of the Affinity Research Collaboratives Model."
Ravid K, Seta F, Center D, Waters G, Coleman D. Acad Med. 2017 Oct;92(10):1399-1405.
>> View at <http://bit.ly/2kdXH0g>
- "Promoting interdisciplinary research in departments of medicine: results from two models at Boston University School of Medicine."
Coleman DL, Spira A, Ravid K.
Trans Am Clin Climatol Assoc. 2013;124:275-82.
>> View at <http://bit.ly/2kdYgXW>
- "Building interdisciplinary biomedical research using novel collaboratives."
Ravid K, Faux R, Corkey B, Coleman D. Acad Med. 2013 Feb;88(2):179-84.
>> View at <http://bit.ly/2AKOJhU>