

PRECISION MEDICINE FOR ALZHEIMER DISEASE AND RELATED DISORDERS (Precision Medicine ARC)

This ARC meets on the 2nd Tuesday of each month.
Meeting details with the ARC Directors



Supported and funded by the BU Evans Center for Interdisciplinary Biomedical Research

<http://www.bumc.bu.edu/evanscenteribr/the-arcs/the-arcs/>

Purpose

Precision medicine aims to collect, connect, and apply vast amounts of scientific research data and information about our health to understand why individuals respond differently to treatments and therapies, and help guide more precise and predictive medicine worldwide. Academic institutions are increasingly developing precision medicine programs, targeting cancer and a few other disorders for which genetic signatures are highly predictive for risk or progression of illness, or response to treatment. Boston University currently does not have a precision medicine program, but is poised to do so because of our large amounts of clinical and 'omics data, clinical programs, and expertise in human and medical genetics (including genetic counseling), genomics, computational biology, data science, and public health. This ARC seeks to initiate a precision medicine program in Alzheimer disease (AD), a clinical area for which there is great need and broad expertise and resources at BU.

Value of this proposed ARC and its unique features as means for creating a university program in Precision Medicine and for successful competition for extramural grants:

- Program is designed to leverage the deep and broad Framingham Heart Study clinical, biomarker and 'omic' data for deriving AD subtypes and risk profiles
- Partnership with private industry to apply a novel, cutting edge approach for BIG DATA mining and analysis
- Highly multidisciplinary and collaborative team of AD clinical and basic scientists who are nationally renowned in their respective fields and have a strong record of continuous NIH and other extramural funding
- Significant contributions from investigators on the CRC and MED campuses
- Strong leadership with a commitment to developing precision medicine for AD and other complex diseases

ARC leadership team

Lindsay Farrer, ARC Program Director, Ph.D., Section Chief, Biomedical Genetics, Professor, Medicine, Neurology, Ophthalmology, Genetics & Genomics, Epidemiology, and Biostatistics

Rhoda Au, ARC Program Co-Director, Ph.D., Professor, Anatomy & Neurobiology

Alice Cronin-Golomb, ARC Program Co-Director, Ph.D., Professor, Psychological & Brain Sciences