

# Applications in Network Medicine: Gene Co-expression and Gene Regulatory Networks

## REQUEST FOR APPLICATIONS

**Brief description:** This one-day module will provide hands-on experience in the analysis of two specific types of biological networks—gene co-expression networks and gene regulatory networks. During the module, faculty will review the scientific theory involved in these methods and then participants will apply the theory to real data sets. After completing the module, participants should be able to apply these methods in their own research.

**Target Audience:** MD, DNP, PhD or equivalent, DDS/DMD

**Date applications are due for applicants and endorsers:** Friday, February 24, 2017 (applicants) and Wednesday, March 1, 2017 (endorsers)

**Date by which applicants will be notified:** Friday, March 17, 2017

### Selection process and criteria:

Module Pre-requisites:

- R programming experience
- Past participation in Harvard Catalyst's *Introduction to Network Medicine* course, or willingness to watch selected recorded lectures from the three-day course prior to this module

Course participants will be selected based upon: (1) completed application and supervisor endorsement and (2) fulfillment of pre-requisites and (3) equitable institutional representation.

Harvard Catalyst's Education Program offers first priority to applicants who are current Harvard students, faculty, or current employees of Harvard University, its ten schools, and its seventeen Academic Healthcare Centers (AHC), or that of Boston College School of Nursing, MIT, or Harvard Pilgrim Health Care. A complete list of participating institutions can be found on the Harvard Catalyst website: <http://catalyst.harvard.edu/about/>.

The next level of priority is awarded to members of the national Clinical Translational Science Award (CTSA) consortium. A complete list of participating institutions (CTSCs) can be found on the CTSA website: <https://www.ctsacentral.org/institutions>

Applicants who are external to the groups listed above are accepted for a fee when space is available.

**Tuition/fee for external participants:** Please contact us for more information.

The expectation is that by accepting a seat in one of the Education Program courses, the participant is agreeing to attend the entirety of the course. As part of the application process, a supervisor's endorsement for course attendance, granting the applicant permission to be away from the lab or clinical duties for the duration of the course, will be automatically generated. If a participant must be absent for any portion of the course, it is the participant's responsibility to notify course coordinators, since attendance is taken at all sessions. If the participant cannot be reached, the coordinators will then be obliged to notify the endorsing supervisor of the unexplained absence. Since the Education Program courses are expensive to produce, but are offered to Harvard and CTSC affiliates free-of-charge, including meals and Continuing Medical Education (CME) credits, the only obligation of participants is fully to attend and participate.

Please also note that participants seeking CME credits must attend all course sessions and complete each daily evaluation. No partial CME credits are offered.

**If you have any questions about the course or information above, please don't hesitate to ask. The course coordinators can be reached at [network\\_medicine@catalyst.harvard.edu](mailto:network_medicine@catalyst.harvard.edu)**