The Tissue Chip Testing Center(s) (TCTC) will provide resources and infrastructure for the validation of tissue chips being developed as part of the NIH Tissue Chip (TC) Program or NIH Microphysiological Systems (MPS) Program. The MPS program supports a consortium of investigators developing accurate cellular and organ microsystems representative of human physiology for the evaluation of drug efficacy and toxicity (RFA-RM-11-022). The developed in vitro MPS platforms are representative of major organs and tissues in the human body and need to be validated for their predictive capabilities in the assessment of biomarkers, and the bioavailability, efficacy, and toxicity of therapeutic agents prior to entry into clinical trials. Validation of the tissue chips will be conducted through the TCTC that will be responsible for the testing of a select group of compounds using predefined assays and biomarkers according to pharmaceutical industry standards, and for the integration of the data into a public database.

Eligibility & Requirements:
- Any individual(s) with the skills, knowledge, and resources necessary to carry out the proposed research as the Program Director(s)/Principal Investigator(s) (PD(s)/PI(s)) is invited to work with his/her organization to develop an application for support.

Internal Nomination Process:
Interested applicants should send the following documents in sequence in one PDF to resapp@jhu.edu no later than 4 p.m. on April 19, 2016:

1. JHU Limited Submission Cover Sheet
2. Abstract (one page, double-spaced)
3. Proposal (maximum of four pages of text only, single spaced: 12-pt font and one-inch margins) (Note: figures, tables, and other reference material should not be included as text)
4. Curriculum Vitae of investigator, including current external research support and publications
5. Budget (two pages maximum)
6. Letter of Recommendation from the Department Chair/Director. Letters of Recommendation can be submitted separately to resapp@jhu.edu stating the applicant’s name in the subject line.

Each applicant should expect to receive a confirmation of receipt of their materials. If an applicant does not receive an acknowledgement, or has any questions, please contact Brittany McMahon via resapp@jhu.edu.