CCTS Pilot and Collaborative Studies Program
Multi-Track Collaborative Center Pilots
Request for Applications
IMPORTANT UPDATE!
Due to the extensive electric power outages, the application deadline has been extended to July 4, 2012, 11:59 PM

The Center for Clinical and Translational Science (CCTS) is pleased to announce a collaborative multi-track pilot RFA. The CCTS Pilot and Collaborative Studies Program aims to create translational integrated research teams across the OSU Health Sciences. As a result, we are partnering with six University Centers namely the Center for Microbial Interface Biology, Center for Regenerative Medicine & Cell-Based Therapies, Center for Women's Health, Food Innovation Center, Initiative for Population Research and the Public Health Preparedness for Infectious Diseases. We believe the funding of these research teams will further the aims of the CCTS and build the translational science discipline throughout The Ohio State University and Nationwide Children's Hospital.

Research must be in one of the tracks described below*:*

Track 1	**Welcome Back CCTS Pilot – Only past CCTS Pilot PIs may apply**
	***PI's may qualify/apply for Track 1 in addition to Tracks 2-7. See details below.**
Track 2	**CCTS - Center for Microbial Interface Biology**
Track 3	**CCTS - Center for Regenerative Medicine and Cell-Based Therapies**
Track 4	**CCTS - Center for Women's Health**
Track 5	**CCTS - Food Innovation Center**
Track 6	**CCTS - Initiative for Population Research**
Track 7	**CCTS - Public Health Preparedness for Infectious Diseases**

KEY DATES

RFA release:	May 10, 2012
Application deadline:	**UPDATE: July 4, 2012, 11:59 PM**
Earliest start date:	**UPDATE: August 15, 2012**

Purpose of funding: To encourage faculty investigators to address integrated solutions to complex clinical and translational problems. It is expected that through generation of preliminary data, this funding will facilitate researchers in acquiring extramural support for new and expanded research efforts focusing on functional aspects of disease/health processes or interventions.

Use of funds: Pilot funding may be used to support any direct research expenditure appropriate to furthering the research goals. Funding will not be awarded as bridge funding for ongoing projects, or to purchase large equipment for use as a core resource. It is mandatory that each funded project be completed within one year. No extensions to the research period will be considered.

Priorities in scoring: Representative faculty members from the Centers in this RFA will participate in the proposal review committee. Review criteria for prioritization will include:
- Relation of proposal to the application track
- Level of innovation – strategy to leapfrog is desirable
- Applicant team recent (2008-2012) publication record and potential for extramural funding
- Preliminary data supporting feasibility of study

- Translational/clinical impact (required)
- Interdisciplinary team building (desired)

Required elements for awards:

o The relationship of the proposal to the co-sponsoring Center must be clearly established. See track details for specific Center interests

o Research must be completed within one year.

o Research teams must include a regular faculty member from the co-sponsoring Center as a principal investigator or must become a member of the associated Center and the CCTS by the application deadline. Communicate with the Centers ahead of time for membership criteria. Multidisciplinary or multi-college proposals will be prioritized.

o Eligibility Information: All qualifying (as defined for each track) Ohio State and Nationwide Children's Hospital faculty pursuing clinical or translational science are welcome to apply. Each PI may submit only one proposal for this RFA.

o All applications are recommended to identify a project biostatistician and are encouraged to contact the Center for Biostatistics to schedule a free consultation and review of impending proposal at least 3 weeks prior to submission. Arrangements can be made via the CCTS website under Request Service or contact the Research Concierge.

o Application instructions and formatting requirements are described in pages 5 – 6.

o For the "Welcome Back Track", applicants may opt for dual assignment to one additional track (2 - 7) based on the theme of work and Center requirements

Track 1   Welcome Back CCTS Pilot

Investigators who received past support from the Pilot and Collaborative Studies program qualify for this track. You must demonstrate success in the previously funded project (e.g. publications, grants awarded, grants submitted/scored, intellectual property, patents, etc.).

- You may apply for Track 1 alone or request dual assignment to one other Center Track (2 - 7)

Required elements of Track 1:

- Identify **Track 1 – Welcome Back CCTS Pilot** on the cover page.
- PI may apply to one other track listed on the RFA. However, the proposal must adhere to the requirements of both tracks.
- To be successful in Track 1, provide an itemized list of productivity – include all parameters that you think reflects this. Complete the Pilot Productivity Data worksheet in order to qualify for this award.

This award must not exceed the amount of your previous CCTS Pilot award. One award is expected with funding of up to $50,000 in direct costs for one year.

Track 2   CCTS – Center for Microbial Interface Biology

Faculty with an existing appointment within the Center for Microbial Interface Biology (CMIB) may apply. Multidisciplinary proposals engaging faculty from different colleges will be given priority. Proposals must address fundamental and/or translational science in one of the following thematic areas:

- Genomics/integrative biology for infectious diseases
- Pathogenic mechanisms for transmissible agents of bioterrorism
- Microbial biofilms in health and disease
- Tissue microenvironment and infectious diseases
- Antimicrobial resistance mechanisms
- Immune responses to infection
- Epidemiology of Infection

Required elements of Track 2:

- Identify **Track 2 CCTS - Center for Microbial Interface Biology** on the cover page.

- Research team must include at least one regular faculty member of the CMIB as principal investigator.

One award is expected with funding of $50,000 in direct costs for one year

Track 3   CCTS – Center for Regenerative Medicine and Cell-Based Therapies

Established faculty (with national/international reputation) from any two or more of the seven participating Colleges may co-apply: Arts & Sciences, Dentistry, Engineering, Medicine, Nursing, Pharmacy and Veterinary Medicine. Application must be multi-PI involving at least two (or more) of the above 7 colleges. Proposals must address one of the following four themes: Cell-Based Therapies, Stem Cells, Tissue Engineering and Wound Healing. Imaging studies in the context of the above four themes are desired. The proposed work should lead to multi-PI research proposals. Responding to published RFA is desired. Extraordinary innovation is required. High risk is acceptable.

Required elements of Track 3:
- A letter of intent must be submitted to Brent.Toto@osumc.edu- no later than **May 30, 2012**. This letter should include the title, team members and a 250 word (max) abstract indicating scope and purpose of project. Center leaders will meet with PIs of potentially interesting projects to provide specific guidance.
- Identify **Track 3 CCTS - Center for Regenerative Medicine and Cell-Based Therapies** on the cover page.
- Application must be multi-PI involving at least two of the above 7 colleges

One award is expected with funding of $50,000 in direct costs for one year.

Track 4   CCTS – Center for Women's Health
Note: The CWH does not have membership. All investigators who propose research projects in one of the below focus areas are strongly encouraged to apply.

Over the past two decades, women's health has become recognized as an important public health issue requiring the development of a distinct research and clinical discipline. The definition of women's health has evolved beyond reproductive health issues to include all health concerns experienced by women across their lifespan. Below are some priority areas of interest for the Center for Women's Health.

- Issues related to obesity that uniquely effect women and their children
- Unique nutritional needs of women
- Menopause: its unique biology and psychosocial issues
- Gynecological care during adolescence, including sexually transmitted diseases
- Infertility and related conditions
- Cardiovascular diseases and stroke in women
- Neurodegenerative diseases that are over-represented among women
- Psychosocial and socioeconomic issues that face women
- Immunological and autoimmune disorders that are over-represented among women
- Risk factors for disease that are disproportionably represented among women
- Cancer, prevention, screening, treatment, and survivorship issues unique to women
- Novel methodologies or technologies applied to women's health

Required elements of Track 4:
- Identify **Track 4 CCTS - Center for Women's Health** on the cover page.

One award is expected with funding of $50,000 in direct costs for one year.

Track 5   CCTS – Food Innovation Center

The CCTS – Food Innovation Center (FIC) Grant Competition supports the university-wide priority of food discovery. Ohio State targets three discovery themes to shape our future research. These themes—health and

wellness, food production and security, and energy and environment— are articulated by the Trustees, the Provost, and in many of our colleges' strategic plans. Our Food Innovation Center brings unique broad-based expertise as every Ohio State college has membership in this center. Proposal ideas must be innovative, create value, and lead to competitive extramural grants or commercialization. We seek new team research approaches in food discovery consistent with both the CCTS and FIC mission; multi-college teams are favored.

Required elements of Track 5:
- Identify **Track 5 CCTS - Food Innovation Center** on the cover page.
- Principal Investigator must be a regular faculty member of the Food Innovation Center as of the application deadline; PI must be a registered CCTS member or apply to join the CCTS. Teams must have at least one additional faculty member who joins the FIC.

One award is expected with funding of $50,000 in direct costs for one year.

Track 6   CCTS – Institute for Population Research

IPR invites proposals for research that falls within the three areas identified below. Our goal is to seed work that will grow into larger projects that will receive external funding. We place priority on multi-disciplinary projects, especially joint endeavors of behavioral and biomedical researchers.
- Research on human health—including productivity, behavior, and development—using defined populations and probability samples. Priority topics include the effects of early life influences and policy factors on health.
- Behavioral and social science research on sexually transmitted diseases (including HIV/AIDS) and reproductive health (including family planning).
- Research in demography, the scientific study of human populations, including their size, composition, distribution, density, and growth and decline, as well as the causes and consequences of demographic change. Major areas of focus include fertility, mortality and morbidity, migration, population distribution, nuptiality, and family demography.

Required elements of Track 6:
- A letter of intent must be submitted to Jill Morris (morris.856@osu.edu) - no later than **June 7, 2012**. This letter should include the proposal title, team members and a 250 word (max) abstract.
- Identify **Track 6 CCTS - Initiative for Population Research** on the cover page.

One award is expected with funding of $50,000 in direct costs for one year

Track 7   CCTS – Public Health Preparedness for Infectious Diseases

The PHPID program through strategic priorities and areas of emphasis seeks to improve public health and patient care by developing new products (therapeutics, diagnostics, vaccines, disinfection, etc.) to address unmet needs. Only PHPID program faculty members are eligible to apply. Priority is given to new investigators (five years or less on faculty) and to established investigators starting a new area of research (areas with no prior support). Proposals must address infectious disease technology or product development (vaccines, therapeutics, diagnostics, assays, disinfection, etc.). Cross-college and multidisciplinary proposals involving PIs from more than one functional unit are highly encouraged. The proposed work should lead to multi-PI inventions and research proposals. Seed grant proposal ideas must be innovative, create value, and should lead to commercialization, patent, intellectual protection or development in some nature.

Required elements of Track 7:
- Identify **Track 7 CCTS - Public Health Preparedness for Infectious Diseases** on the cover page.
- Research team must include at least one regular faculty member of the PHPID as a principal investigator.

One award is expected with funding of $50,000 in direct costs for one year.

ALLOWABLE COSTS

a. Research personnel: Salary and fringe support for research staff, students, graduate students, clinical trainees, post-doctoral and clinical fellows is permitted. Salary and fringe support for faculty is NOT permitted
b. Laboratory supplies, core expenses, and clinical study expenses such as research beds, nursing or bionutrition staff, routine laboratory measures.
c. Travel funds that are needed for study conduct (e.g., participant travel) are allowed if essential. Travel to research conferences is **not** allowable.
d. Equipment that is essential for the study and is not otherwise available may be requested. But large equipment expenditures are discouraged.

CCTS INFRASTRUCTURE SERVICES

Investigators are strongly encouraged to visit the CCTS website to investigate the available CCTS resources such as:

*   Biomedical Informatics
*   Biostatistics services to assist in study design and data analysis
*   Regulatory assistance for IRB or IACUC submissions including consent documents, HIPAA forms, DSMB and access to a Research Subject Advocate as needed
*   Nursing, bionutrition and laboratory services located at Ohio State or NCH Clinical Research Centers
*   Participant recruitment services
*   Comparative effectiveness research (CER) consultation
*   Community Engagement for resource materials for developing community-based studies
*   Translational Technologies Cores including:
    o   Biomedical Imaging Core
    o   Chemical and radiochemical support services for drug discovery
    o   Comparative Pathology and Mouse Phenotyping Shared Resource
    o   Laser Capture Molecular Core
    o   Pharmacoanalytic expertise and instrumentation
    o   Medicinal Chemistry
    o   Veterinary Clinical Trials Office
    o   Comparative Mouse Pathology
*   Contact the Valerie DeGroff the Research Concierge if you have questions about CCTS resources or the Pilot and Collaborative Studies program.

APPLICATION INSTRUCTIONS

The application is an online process and must be created and documents uploaded no later than **Wednesday, July 4, 11:59 p.m**. to:
http://go.osu.edu/CCTS-CenterRFA

A. FULL APPLICATION FORMAT. Use the bolded titles for each file uploaded in as a compressed folder.
1. **Abstract and Cover Page** (2 pages maximum)
    a. Name(s) of principal investigator(s)
    b. Previously funded CCTS Pilot (no/yes – year/ description)
    c. Identify RFA track number and name
    d. Title of proposal
    e. Problem to be solved: What is the current gap? How do you solve it? (250 words max)
    f. Abstract: brief description (maximum 250 words) of the proposed project

2. **Research plan** (8-pages maximum; follow format specifications listed below).
   a. **Specific Aims, Objectives, Hypothesis (pointed).** A summary illustration depicting scope of research is requested. (1 page)
   b. **Background and Significance** include translational and collaborative aspects of the project, disease focus and functional significance. Describe the relationship of this proposal to the specified RFA track (2 page max)
   c. **Preliminary Data** include 6-8 key illustrations (desired) (2 page max)
   d. **Research Design & Methods.** A biostatistical section should be included as appropriate, to cover study design, data analysis plans and power estimates. Address feasibility.
   e. **Proposed Timeline, Milestones and Deliverables** for completion of the project within the <u>one-year funding period</u>. Be specific about exact deliverables.
   f. **Plans for Future Grant Submissions** utilizing data from the project. (e + f = 1/2 page)

3. **Literature Cited**

4. **Appendix**
   a. **[Biographical Sketches](#)** (PHS 398) for ALL PI(s), coinvestigators, mentors (only if PI are junior faculty) and key personnel collaborators.
   b. **Letters of Support from deans, chairs, and mentors** (as appropriate -maximum of 5). If a LOS is provided by a mentor, a mentorship plan should be described in this letter.
   c. **Itemized [Project Budget and Budget Justification](#)** (2 pages maximum) Use CCTS budget form, including justification section. Describe overlap with submitted or funded applications.
   d. For Track 1 only: Complete a **[Pilot Productivity Table](#)** (required).

B. **FORMAT SPECIFICATIONS**. All applications must adhere to the following guidelines:
   1. **Font**
      a. Use Arial, 11-point font, black.
      b. Type density, including characters and spaces, must be no more than 15 characters per inch.
      c. Type may be no more than six lines per inch.
   2. **Page Margins**
      a. Use at least one-half inch margins (top, bottom, left, and right) for all pages
   3. **Application Paging**
      a. The application must be single-spaced.
      b. Consecutively number pages in the research proposal.
   4. **Figures, Graphs, Diagrams, Charts, Tables, Figure Legends, and Footnotes**
      a. You may use a smaller type size, but it must be in black and readily legible
      b. Do not include figures or other materials that are not inserted directly into the body of the application. Any separate pages will be counted as part of the page limit.

Submit application to: http://go.osu.edu/CCTS-CenterRFA

PILOT APPLICANT AND AWARDEE RESPONSIBILITIES

- Upon receipt of your application, you will receive an emailed submission confirmation. **Urgent! Please inquire if you do not receive this notification within 24 hours.**
- **IACUC/IRB approval letter and a signed Cost Overrun Worksheet will be required** prior to the release of award funds. If the regulatory approvals are not provided, these must be received by the CCTS Pilot program **within 60 days** of the award start date. No award funds will be released until these approvals are received by the CCTS Pilot program.
- A 6-month interim progress report is required.

- A final report describing project accomplishments must be submitted within 30 days of the project end date.
- The projects must be completed within the one year timeline. No extensions past the original end date of the proposals will be considered.
- Pilot awardees are required to participate in CCTS research functions and will be invited to serve on intramural grant review panels.
- Following the completion of a pilot, the CCTS administration will request periodic updates of progress related to pilot project (i.e. publications, extramural funding, intellectual property, patents, meeting presentations, media coverage, etc.).
- The OSU CCTS itself is evaluated by the NIH on its effectiveness in stimulating new research findings and publications. The appropriate acknowledgement language for the CCTS as well as the appropriate Center partner will be provided to the Pilot awardees in their decision letters.

FURTHER INFORMATION

The CCTS Pilot and Collaborative Studies program is directed by Drs. Chandan K. Sen and John Sheridan. Please direct questions to Valerie DeGroff, 614-366-7367.