

Request for Proposals (RFP)

Joint initiative – Pilot Research Grant

OSU Center for Clinical and Translational Science (OSU CCTS)

NIH Clinical and Translational Science Award (CTSA)

Public Health Preparedness for Infectious Diseases (PHPID)

What is this about?

The CTSA and PHPID are requesting research proposals from eligible faculty in the areas of clinical and translational infectious disease and public health preparedness research.

www.medicalcenter.osu.edu/research/translational_research/ccts

The Ohio State University has created the **OSU Center for Clinical and Translational Science (OSU CCTS)** to improve the quality of care for all patients in the community by creating a transformative clinical and translational science discipline that is at the core of the OSU academic culture.

The CCTS is funded by **The NIH Clinical and Translational Science Award (CTSA)**, an NIH Roadmap grant that supports the educational programs and scientific infrastructure necessary to create a new discipline of clinical and translational research. The goal of the CTSA is to speed the translation of new scientific discoveries to enhanced patient outcomes through key areas, such as: Biomedical Informatics Design, Biostatistics and Ethics Support and Training, Regulatory Knowledge and Support, Participant and Clinical Interactions Resources, Community Engagement Core, Pilot and Collaborative Translational and Clinical Studies, Novel Clinical and Translational Methodologies, Research Education, Training and Career Development, Translational Technologies and Resources, and Tracking and Evaluation.

www.phpid.osu.edu

The Targeted Investment in Excellence initiative in **Public Health Preparedness for Infectious Diseases (PHPID)** provides \$4.7 million over five years to move inter-collegiate public health preparedness and infectious disease education and research into the top tier as part of OSU's Academic Plan. The significant cross-college infrastructure solidified through the PHPID enables multidisciplinary research teams to more effectively further President Gee's vision of moving the quality of OSU's public health preparedness and infectious disease research from excellence to eminence.

The goal of the PHPID is to protect public health by minimizing animal to human, environmental, and food borne infectious disease threats through innovative interdisciplinary research. This will be achieved through a program of research excellence that is broad in scope encompassing the full range of relevant sciences from the laboratory bench to the community. We embrace the interdisciplinary nature of the program recognizing that breakthroughs will likely emerge at the interface of scientific disciplines. The goals of the PHPID include:

- Translating scientific discoveries into clinical applications e.g. new diagnostics, therapies, and vaccines for infectious diseases;

- Detecting the presence of emerging infectious diseases within communities, the underlying mode of transmission, and strategies for prevention, control and treatment;
- Preventing human infection from antibiotic resistant zoonotic (animal to human) micro-organisms through an understanding of livestock immune systems -- particularly the gastrointestinal tract -- with an aim to reduce use of antibiotics in animals
- Addressing food safety issues during food production, processing, transport, storage, retail, or consumer use, with an aim to decrease infections and associated fatalities caused by food-borne illness; and
- Training professionals in veterinary public health and infectious diseases public health preparedness.

Expectations and Priorities for Funding:

The lead investigators of the OSU CCTS and PHPID seek to inspire infectious disease research of concern to public health that impacts the world through improved translational and clinical science. The specific aims of the CTSA/PHPID Pilot Research Grant funding include the development of new clinical and translational multidisciplinary scientific teams which lead to the generation of pilot-scale public health preparedness and infectious disease data, technologies, and prevention/treatment methods. A clear strategy describing how this Pilot Award will support future cross-collaborative research projects must be provided.

Interdisciplinary work in CCTS and PHPID with the greatest potential for positive impact on society has priority. Some questions may include:

- Does environmental virus aerosol sampling confirm the current airborne transmission models?
- Can data regarding key environmental health determinants and clinical disease information be shared across disciplines to maintain public health and prevent infectious diseases?
- How can experimental models identify appropriate molecular targets for diagnostics, therapies or vaccines in a more efficient manner?
- Can we more effectively detect emerging and re-emerging infectious disease strains that result from community acquired infections?
- Can we develop methods for interdisciplinary training of health practitioners for effective response to infectious disease threats crossing the community/healthcare boundary?
- How can current epidemiologic tools be used to identify resistant microbes and develop better strategies for preventing transmission?
- How can we utilize key enabling technologies of microRNA and laser capture microdissection to address issues of public health?
- How can we leverage understanding to construct new teams to focus on personalized and preventative health care relevant to infectious diseases and public health?

We anticipate that 3 awards will be given. **One award will have a maximum budget of \$50,000** direct cost per award per year and a maximum duration of two years, contingent on approval of a year-one progress report. A final report at the end of the second year is required. **Two awards will have a maximum budget of \$25,000** direct cost per award per year and a maximum duration of two years, contingent on approval of a year-one progress report. A final report at the end of the second year is required. Interdisciplinary work in CTSA key areas that creatively integrate public

health preparedness and/or infectious disease issues with the greatest positive impact on society will be given priority. Proposals submissions are limited to one per principal investigator.

Who may apply?

Any OSU faculty member affiliated with, or applying for membership to the PHPID is eligible. All PHPID affiliates are eligible, as listed in the faculty directory:

<http://phpid.osu.edu/phpid/?q=profile>. **Creative collaboration among scientists in different colleges/universities to form new scientific teams is highly encouraged and will be a key element considered for funding successful applications.**

If you are not yet affiliated, you may request membership in PHPID by email to phpid@osu.edu with either a web reference to your CV or as an attachment. To join the PHPID you must agree to the PHPID mission and goals <http://phpid.osu.edu> and be a member of one of the six colleges [Colleges of Public Health; Medicine; Pharmacy; Biological Sciences; Veterinary Medicine; or Food, Agricultural, and Environmental Sciences]. The PHPID steering committee will approve new PHPID affiliate members.

Characteristics of a Successful Proposal

1. It is anticipated that 3 awards will be given. One award will have a maximum budget of \$50,000 direct cost per award per year and a maximum duration of two years, contingent on approval of a year-one progress report. A final report at the end of the second year is required. Two awards will have a maximum budget of \$25,000 direct cost per award per year and a maximum duration of two years, contingent on approval of a year-one progress report. A final report at the end of the second year is required.
2. The P.I. must be or apply to be an Affiliate faculty member of the PHPID.
3. The Proposal should feature collaborative effort across CCTS and PHPID.
4. The narrative should state clearly in non-technical language how the work is innovative and contributes to the advancement of this joint program's goals.
5. No extramural match is required and prior funded work is not eligible. Plans for acquiring external funding should be disclosed, such as identification of a potential extramural agency with timelines for submission and collaborators. Priority will be given to proposals whose research has a high likelihood of leading to extramural funding.
6. No more than ten pages are allowed in 12 point type with 1 inch margins on letter size paper. These 10 pages include the cover page with abstract, contents page, project narrative, budget narrative, references, and collaboration and future plans (Sections A through F of Guidelines). Tables, images and graphs are included within the 10-page limit.
7. The relationship between the proposed, previous, and existing work must be clear.
8. Evaluation of proposals will be conducted by a joint selection committee represented equally between the PHPID and CCTS. A low rank will be assigned to any proposal that fails to meet the seven criteria listed above.

How to apply:

The same format required for PHPID seed grants is used for consistency. This is described at <http://phpid.osu.edu/frame.php?page=pilotGrant.php>

The deadline for proposals is January 9, 2009, at 5PM eastern time. All proposals must be sent by email attachment to phpid@osu.edu in a single file using Adobe PDF text format. To ensure fairness, no proposal, nor revision, will be accepted after the deadline. Paper, fax, MS Word, WordPerfect, or other non PDF submissions will not be accepted.

All pages should be set to print on standard 8.5- by 11-inch paper and numbered consecutively. All margins should be at least 1 inch. Within an 8-page limit are items A - E in the outline below; all eight pages must have 12 point or larger type with no more than 6 lines per inch. These sections include the cover page, contents, project narrative, budget narrative, collaboration and future plans. All tables and figures are within the eight page limit. No appendices are allowed. Exempt from the eight page limit are pages outside of A - E in the outline below. It is permissible to use the current and pending support form and conflict of interest form from grants.gov.

It is the responsibility of the investigator to comply with all existing University policies and guidelines regarding the use of human subjects, animal welfare, conflict of interest, and hazardous materials. Please work with the Office of Technology Licensing on matters pertaining to intellectual property. <http://tlc.osu.edu/>

Proposal Outline (A to E inclusive must be eight pages or less and not less than 12 point type):

A. Cover Page:

Project title. Principal Investigator (PI) name, title, affiliation, campus address, telephone, fax, and e-mail. Names, titles, and affiliations of collaborators. Anticipated start date, duration and funds requested. Maximum 200 word lay-summary of the purpose, relevance, impact and expected outcomes.

B. Contents

Please number all pages (including those outside of the page limitations) and apply these major letter headings: Cover Page; Table of Contents; Project Narrative; Budget Narrative; References; Collaboration and Future Plans; Curriculum Vitae for Each Investigator; Current and Pending Support for each investigator; Budget.

C. Project Narrative

- C.1. Objectives. A clear statement of the objectives, including hypotheses tested, research questions addressed and any products developed.
- C.2. Rationale and Significance. Concisely present the rationale behind the proposed research. Describe the probable end products of the study and associated significance. The current status of research and significant published work should be summarized. Innovation or unique expertise among investigators should be identified. The relationship to CCTS or PHPID, and how it differs from current projects, should be explained.
- C.3. Research Methods. A description of the research design, methods, data analysis, application of results, limitations of the procedures, and a schedule of activities, typically presented as a table or Gantt chart.
- C.4. Role of Investigators. The role of each investigator and percent time on the project.

C.5. Timeline. A statement or chart showing when objectives, reports or other events are planned over the 8 quarters or 24 months of the project. The end of month 12 must show a first year report to us.

D. Budget Narrative

Provide a budget narrative describing equipment, personnel (faculty, graduate students, post docs, technicians, etc.) and other expenditures. List the number of quarters of support for any graduate student.

E. Collaboration and Future Plans

Mention any collaboration or arrangements with other scientists, notably those within the CCTS and PHPID. Address plans for seeking extramural funding.

F. References are listed alphabetically and conform to an accepted journal format. Consecutive numbers may be used for cites throughout the proposal. Not less than 10 point type.

G. Curriculum Vitae (CV)

Each CV is not longer than three pages including publications. Specify education, employment and professional history, honors and awards, funding history for the past five years, and selected recent or relevant publications. Not less than 10 point type.

H. Current and Pending Support

List current and pending research support for each investigator listed. Include public or private support as well as the proposed project. A standard grants.gov form may be used in the native font.

I. Budget

Include salaries and wages, fringe benefits, equipment, materials and supplies, travel, publication costs, and tuition. Faculty salaries are not allowed. Indirect costs are not allowed. The budget form submitted must follow the format provided at <http://phpid.osu.edu/phpid/?q=node/139> and clearly show which academic units will receive funds. An electronic file containing the budget form can be requested from phpid@osu.edu.

For more information:

Contact the PHPID representative: Eric Lutz (lutz.12@osu.edu), or the CCTS representative: Kim Toussant (kim.toussant@osumc.edu).