



IMAGING CORE PILOT AWARD APPLICATION

Irving Institute for Clinical and Translational Research

2013

2013 Irving Institute Imaging Core Pilot Award Application

The Irving Institute for Clinical and Translational Research (CTSA) Imaging Core seeks applications for one-year, one-time only, individual pilot grants ranging from \$5,000 to \$10,000 each, in the following areas:

- Magnetic Resonance Imaging (MRI)
 - Optical Imaging
 - PET Tomography
 - Single Photon Emission Computed Tomography/Computed Tomography (SPECT/CT), and
 - Ultrasound.
- *Structural, functional, or spectroscopic imaging studies in animals or human subjects with relevance to medical illness will be considered.*

These **2013 Irving Institute Imaging Core** pilot funds are intended primarily for JUNIOR INVESTIGATORS who have not previously received funding through this mechanism. At award time, qualified applicants must have an appointment as an Instructor, Assistant Professor (clinical or tenure track) or Associate Research Scientist at CUMC. U.S. citizenship or permanent residency status is not required. Focus of the application should be on PILOT STUDIES which will lead to independent, external funding.

Funds are limited, and the main goal is to obtain pilot data for NIH, NSF or foundation grant applications. To ensure the methods proposed are optimal for the research question being posed, applications will be reviewed by a multi-disciplinary selection committee with expertise in radiology and imaging. Budgets for approved projects will range from \$5,000 to \$10,000, as determined by the Imaging Core Review Committee.

DEFINITION OF CLINICAL AND TRANSLATIONAL RESEARCH

RESEARCH DIRECTED TOWARD HUMAN DISEASES

RESEARCH SHOULD INVOLVE ONE OR MORE OF THE FOLLOWING:

- **DIRECT CONTACT WITH HUMAN SUBJECTS, INCLUDING THERAPEUTIC TRIALS, STUDIES OF GROUPS OF PATIENTS OR CLINICAL OUTCOMES;**
- **LABORATORY STUDIES OF HUMAN BODY FLUIDS, TISSUES, CELLS OR DEVICES;**
- **STUDIES IN ANIMAL MODELS OF A DISEASE IN WHICH A THERAPEUTIC APPROACH AND/OR MECHANISM OF DISEASE IS BEING INVESTIGATED.**

NOTE: Applications with an interdisciplinary and collaborative approach with other departments or schools are favorably viewed.

DIRECTIONS:

1. Prepare all parts of the application form (contact information, abstract, current funding sources, submitted applications, 12-month budget, budget justification, signature page). Attach the application (detailed in item #2) and NIH-style biosketches, for yourself and any co-investigators, including eRA Commons usernames.

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2. Application Format:

The body of the application **may not exceed five (5) single-spaced, typed pages** (11 or 12 point font required; Arial typeface preferred), excluding references. It should include:

- **Goals** – What are you planning to do? (1 page)
- **Public Health Significance of Proposed Study (Rationale)** – Why is it worth doing? Has it been done before? (1 page)
- **Imaging modality** – Which modality will be used? Why has it been chosen? (1 page)
- **Long-term Aims** – Including plans for future funding. (1 page)
- **Budget needed (for imaging only)** – This pilot grant may not be used for salary, fringe, supplies, travel, or and other general expenses (OTPS). (1 page)
- **Future Plans** – What is the next step after receiving pilot funding? Is a grant application planned and, if so, when?
- **References** – No more than five (5).

Note: IRB approval is not required at the time of application, but must be in place, in writing, at the time of the award.

3. NIH-style biosketch for each investigator: Maximum of 4 pages per investigator (including Other Support).
4. **Convert the entire packet into a single PDF file that must be submitted electronically no later than 5:00pm, Monday, January 14, 2013**, to:

Michelle McClave
Communications Coordinator
Irving Institute for Clinical and Translational Research
Email: mm3098@columbia.edu

5. Reviewers will use a scoring system based on a 5-point scale and judge each application on the basis of scientific merit, appropriate use of selected imaging modality, potential impact of the pilot findings, and potential of the junior investigator for an independent research career.
6. **For any questions about the application content, please contact the Co-Directors of the Irving Institute's Imaging Core Pilot Award Program:**

Chaitanya Divgi, MD
Professor of Clinical Radiology and Director of the PET Center
crdivgi@columbia.edu

Elisa Konofagou, PhD
Associate Professor of Biomedical Engineering
ek2191@columbia.edu

For a list of previous Imaging Core awardees, please visit:
http://irvinginstitute.columbia.edu/resources/imaging_core_winners.html

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FAILURE TO FOLLOW THESE DIRECTIONS WILL RESULT IN THE PROPOSAL BEING RETURNED TO YOU, WITHOUT REVIEW.

JUNIOR INVESTIGATORS ARE STRONGLY ADVISED TO REVIEW APPLICATIONS WITH SENIOR FACULTY MEMBERS PRIOR TO SUBMISSION.

DO NOT INCLUDE APPENDICES.

THE 2013 IMAGING AWARD RECIPIENTS WILL BE ANNOUNCED IN MARCH 2013.

FUNDING WILL BE AVAILABLE UPON ANNOUNCEMENT OF AWARD RECIPIENTS.

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CONTACT INFORMATION PAGE – Please include contact information for the PI and any co-investigators, collaborators and/or consultants.

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|-----------------------------------|
| PI NAME: |
| ACADEMIC TITLE: |
| HOME DEPARTMENT: |
| LOCAL ADDRESS: |
| EMAIL ADDRESS: |
| COLUMBIA UNI: |
| NIH eRA Commons user name: |
| TELEPHONE NUMBER: |
| CO-INVESTIGATOR NAME: |
| ACADEMIC TITLE: |
| HOME DEPARTMENT: |
| LOCAL ADDRESS: |
| EMAIL ADDRESS: |
| COLUMBIA UNI: |
| NIH eRA Commons username: |
| TELEPHONE NUMBER: |
| CO-INVESTIGATOR NAME: |
| ACADEMIC TITLE: |
| HOME DEPARTMENT: |
| LOCAL ADDRESS: |
| EMAIL ADDRESS: |
| COLUMBIA UNI: |
| NIH eRA Commons username: |
| TELEPHONE NUMBER: |

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PROJECT TITLE:

SYNOPSIS OF PROPOSAL: (use only space provided below – minimum 11 point font)

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ALL CURRENT SOURCES OF RESEARCH FUNDING (include begin/end dates and total direct costs)

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| PENDING APPLICATIONS FOR RESEARCH FUNDING (include proposed begin/end dates and total direct costs) |
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| 12-MONTH BUDGET | |
| Requested Imaging Modality(ies): | |
| Quantity of Scans | |
| Cost Per Scan | |
| SUB-TOTAL | \$ |
| TOTAL PROPOSED BUDGET | \$ |

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DETAILED BUDGET JUSTIFICATION: (use only space provided – minimum 11 point)