



Request For 2009/2010 (Cycle 2) Child and Maternal Health Pilot Grant Applications
Colorado Clinical and Translational Sciences Institute
Pilot Grant Application Process

I. Purpose

The Child and Maternal Health Pilot Grant Program of the CCTSI is a series of one-year awards generously funded by The Children's Hospital and meant to encourage cross-disciplinary and collaborative research in clinical and translational medicine focused the goals of the Child and Maternal Health Program within the CCTSI.

The overall goal of the CMH Component of the CCTSI is to establish a new clinical-translational research program focused on longitudinal research in children of all ages as well as pregnant women and mothers that will ultimately improve child and maternal health and prevent diseases that begin in early life. To help achieve this goal the Child and Maternal Health Program of the CCTSI will fund a series of one-year pilot project awards meant to encourage cross-disciplinary and collaborative research that contributes to this goal. These awards are designed to

- Promote innovative research teams capable of interacting across disciplines, schools, institutions
- Promote research in children of all ages
- Promote investigation of the mother-child pair to achieve prevention-oriented, lifespan outcomes.

For the CMH Pilot Grant Program, ***translational*** research is intentionally broadly construed and includes any basic, pre-clinical, clinical (Step 1 translational), behavioral, and Step 2 translational research with promise to improve child health. Therefore, basic research at the cellular and molecular level, pre-clinical research in animal models, clinical research in humans, and outcomes or health services research are all included.

Awards will be for a maximum of \$20,000 (indirect costs not permitted). The CMH Program intends to put \$100,000 to these awards this coming January, 2010, and at least \$100,000 per year thereafter.

Additional CCTSI pilot awards for translational research not specific to Child and Maternal Health research as well as Community-based research pilot grant program are being administered through separate RFAs. If your research does not involve Child and Maternal Health research, please consider these options for pilot funding (they can be found on the CCTSI Website under the CO-Pilot Grant Award Program and the Community Translational Research/Engagement pilot grant program). You are allowed to submit a single application to only one of these three pilot programs: Child and Maternal Health OR CO-Pilot OR Community Translational Research/Engagement. Please note that you are allowed to be an investigator on only one single Pilot Grant application, irrespective of which category you submit to.

For this 2009/2010 round of Pilot Grant Applications, revisions of unfunded 2008/2009 applications are welcome. Renewals or follow-on funding requests for prior CCTSI funded Pilot Grants are NOT allowed.

II. Key Dates

RFA Posting Date: 25 June 2009
Letter of Intent (form attached): 1 September 2009
Application Submission Date: 2 October 2009
Earliest Anticipated Start Date: 1 January 2010

III. Descriptions

CMH Pilot Awards will be made to investigators with promising areas of clinical and translational investigation that are focused on child and maternal health problems and specifically meet the goals of the CMH program noted above. There will be two award levels: The Mentored Pilot Award (requires co-mentorship) and the Junior Faculty Pilot Award (collaboration emphasized).

- The Mentored Pilot Award represents an opportunity for a beginning investigator to benefit from strong mentorship and cross-disciplinary training in clinical and translational research. Co-mentorship is required for this award with a primary mentor as the direct supervisor for the candidate and a secondary mentor adding expertise in a related, but different discipline. Mentored Pilot awards are made to the Mentee (beginning investigator) who should be the PI on the application. Mentored Pilot Award applications **ONLY** are eligible for a cursory pre-review by the administrator, Bonnie Savone, and the CMH Director, Bill Hay, upon request. This pre-review is intended to help beginning investigators with proper assembly of this application.
- The Junior Faculty Pilot Award is an opportunity for faculty at the assistant professor level and below. While this award carries no mentoring requirement, the proposed project should emphasize collaborations and interactions for clinical and translational research.

Applications should detail a discrete research project that addresses the goals of the Child & Maternal Health Program.

Other Review and Approvals of the Proposal: Receiving a CMH Pilot award does not replace the need to obtain research approval from other appropriate review bodies, such as COMIRB, IACUC, or any other regulatory group relevant to the proposal. Applicants are strongly encouraged to demonstrate their capacity to submit this proposal to these regulatory committees as soon as possible upon receipt of the CMH Pilot award. Approval from these committees, however, is not required prior to CMH Pilot application. **If you intend to use any CTSC resources, your research protocol will also require separate SARC submission and approval.** CTSC resources include: inpatient and outpatient research facilities, clinical research nursing support, nutrition research support, exercise research laboratory, ancillary funds; and CTSC Core lab support; see: <http://ctsa1.uchsc.edu/Research-Resources/Clinical-Research-Resources/Pages/ProtocolSubmission.aspx> .

IV. Eligibility

- Applicant(s) must be CCTSI members at the time of application (see the CCTSI website to become a member: cctsi.ucdenver.edu). There will be no exceptions. Becoming a member should take no more than a few minutes filling out the on-line application form.
- Proposed research must represent a cross-disciplinary effort.
- Each faculty member can act as PI or co-investigator on only ONE application and/or Mentor on ONE application. (Thus, an investigator can both direct one project and mentor a separate project.)
- Senior faculty members with a terrific translational research idea can consider mentoring a junior investigator who is eligible for a Mentored Pilot Award.
- **Mentored Pilot Awards** are for beginning investigators (including post-docs and assistant professors in tenure or research tracks) to partner with a more senior mentor investigator. The **award is to the Mentee**, who should be the PI of a Mentored Pilot application.
- **Junior Faculty Pilot Awards** are for junior faculty, including faculty and post-docs, who have not attained associate professor rank or above.
- Underrepresented and minority researchers (including women) who meet the program requirements are particularly urged to apply.
- We will try to address eligibility questions upon LOI receipt and resolve them prior to the application deadline.

V. Application Requirements

Letter of Intent (Mandatory): The Letter of Intent must convey this information (see page 6):

- Award level/category of interest
- PI and CO-I names
- PI and CO-I primary appointments - institution/school/division/department/center or institute (as relevant)
- Project title
- Indication of special consideration (the PI is an underserved minority, including women and from a disadvantaged background; a bioengineering collaboration; and/or incorporating a new research skill to increase PI's clinical or translational expertise)

Letters of Intent assist the CMH Planning and Oversight Committee in assembling the proper expertise on the review committee and preempt potential eligibility issues for applicants.

Therefore, **applications without a Letter of Intent will be returned.**

Submit the above information as your Letter of Intent to Bonnie Savone by email

(bonnie.savone@ucdenver.edu).

Application:

The application is a shortened version of an NIH-style application, summarizing the overall goals, background, preliminary investigation, and methods of the proposed project within a four page limit (no Appendices are allowed).

Contents of the CMH Pilot Program Application	
1.	CMH Pilot Grant Cover Page previously sent as Letter of Intent (attached)
2.	Goals, objectives or aims of your project. (suggested 1/2 page); Provide a clear, concise summary of the hypothesis to be tested. Be sure to state clearly and directly how this research will meet the goals of the Child & Maternal Health Program.
3.	Background and Preliminary Work for the proposal. (suggested 1 page)
4.	Experimental Design and Methods (suggested 2 pages) Clearly describe the overall plan for methods development and addressing each Aim. Describe proposed tests, procedures, subject population and ages in sufficient detail to allow adequate evaluation of your approach. Include a projected time-line. Include details of the relative involvement of mentors and the applicant in Mentored Pilot Award applications or details of different collaborators' expected roles in applications involving collaboration.
5.	Use of CCTSI Resources. (suggested ½ page) Describe how this proposal will use resources of the CCTSI (see website http://cctsi.ucdenver.edu for description of CCTSI resources).
6.	References (no more than 1 page, not included in 4 page limit)
7.	Budget. (suggested 1 page, not included in 4 page limit) a. List the budget by categories. Limit to one year budget. b. Justification: Justify items by categories. No investigator salary or tuition support is permitted. c. Other support for this project should be described
8.	NIH biosketch for key personnel on the project.

All application materials should be submitted together by email to CMH Pilot Grant Program, care of (bonnie.savone@ucdenver.edu).

IV. Review Criteria

The CMH Planning and Oversight Committee members will serve as the CMH Pilot Grant peer review panel and will be co-chaired by Dr. William Hay and Dr. Peggy Neville. Additional reviewers with specific expertise needed for individual proposals will be invited to join the committee as needed. This committee and its members will evaluate eligible applications with a specific emphasis on research that furthers the CCTSI mission and focuses specifically on Child and Maternal Health issues and the goals of the CMH program. Short informative critiques indicating reviewers' assessment of the application's strengths and weaknesses will be provided. Factors that will be considered in the success of the application are:

- **Scientific Merit**
- **Cross-disciplinary or collaborative focus**
- **Significance to the CCTSI** - Will the results further our understanding / diagnosis / or treatment of human diseases? Making use of CCTSI resources is encouraged and will be taken into account in review (A list of CCTSI resources is attached and found on the CCTSI website.)
- **Investigator integration** - Have the investigators made use of new collaborations? Are attempts made to integrate basic and translational researchers in discovery translation? Are efforts made to collaborate with community researchers or community members, if relevant?

- Special consideration will be given to applications from underrepresented minorities and women, and applications representing a changing research direction or a transition to new research that broadens an investigator's research program in clinical and translational areas.
- This application must show how it directly relates to Child and Maternal Health problems and the goals of the CMH Program.

V. Progress Reports (Mandatory):

Successful awardees will **submit a mid-award (six-month) progress report** and provide a **summary of the award's impact at the end of the granting period**, including a list of any publications, patents, follow-on support or other outcomes, and must **recognize the funding from the CCTSI on all publications relevant to the award**.

Questions about the program should be addressed to Dr. William Hay (bill.hay@ucdenver.edu), Director for the CCTSI Child and Maternal Health Program, or Bonnie Savone, administrative assistant (bonnie.savone@ucdenver.edu).

2009/2010 CCTSI Child and Maternal Health Pilot Grant Application

PI Name: _____

PI email address: _____

PI Primary Affiliation (Institution = UCD, UCB, TCH, NJH, DVAMC, DH, KP); School or College if applicable; Department; Division if applicable; Center or Institute if applicable):

Co-I / Mentor Name(s): _____

Project Title: _____

Applying for:

- Mentored Pilot Award
- Junior Faculty Pilot Award

The applicant qualifies as:

- PI is an Underserved or Minority Investigator (Underserved includes Women)
- New research skill or direction

CCTSI Research Resources: ([cctsi.ucdenver.edu/ Research-Resources/Pages/default.aspx](http://cctsi.ucdenver.edu/Research-Resources/Pages/default.aspx))

Consultative services	
	Biostatistics, Epidemiology & Research Design
	Regulatory Knowledge & Support
	Bioethics
	Informatics Support
	Clinical Trials Offices (TCH and UCH)
Clinical & Translational Research Centers	
	Inpatient & Outpatient Research Facilities
	Clinical Research Nursing support
	Nutrition Research Support
	Core Lab
	UCH CTRC Core Lab
	NJH CTRC Inflammation & Immunology Lab
	NJH CTRC Behavioral Medicine Core Lab
	TCH CTRC Core Lab
	UCB CTRC Core Lab
	Exercise research Lab
Child and Maternal Health Resources	
Network of Technology Cores	
	Biobanking Consortium
	Gene Expression and Microarray Analysis
	Imaging Consortium
	Experimental Human Imaging
	Microscopy
	Small Animal Imaging
	Metabolomics
	Proteomics Consortium
	UCCC Proteomics Core
	NJH Proteomics Core
	UCB Proteomics
	Translational Therapeutics & Modeling
	Animal models
	Molecular vector
	Experimental Pharmacology
	Mutation Detection & Genotyping
	Lipidomics

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