

## ***Request for Applications Paul Calabresi Clinical Oncology Scholars (UCCC K12 Award)***

### **Description of Program and Goals:**

The purpose of this program is to prepare highly qualified clinical therapeutic researchers called Paul Calabresi Clinical Oncology Research Scholars (Scholars) who are capable of :

- 1) Communicating and coordinating clinical research activities in teams of clinical and basic/behavioral research scientists to expedite translation of scientific findings into human-oriented research;
- 2) Performing independent clinical research that develops and tests rational hypotheses based on fundamental and clinical research findings in order to improve the medical care of cancer patients or prevent development of cancer in populations at risk;
- 3) Managing all phases of clinical trials research including designing and implementation of innovative translational clinical protocols.

The specific objectives are to:

- 1) Provide a flexible career development program for medical doctors, Ph.D. nurses, and PharmDs who have completed their clinical training and who are committed to a translational clinical cancer research career in an academic setting, as well as basic research scientists committed to patient-oriented cancer research;
- 2) Foster interdisciplinary training, communication and interaction through multiple mentoring of program scholars;
- 3) Create an opportunity of ongoing mentorship to support these junior faculty scholars after their formal career development program ends to ensure their successful transition to clinical research independence.

### **Required Core Activities for Clinician and Basic Scientist Scholars Indicating Expected Time of Completion**

<b>Basic Scholar</b>	<b>Required Core Activities</b>	<b>Clinical Scholar</b>
Yr 01	1. Literature review in area of interest.	Yr 01
All	2. Responsible conduct of research	All
All	3. Clinical experience in discipline	All
All	4. Clinical trials participation	All
All	5. Basic research experience	6+ months
Yr 01-02	6. COMIRB membership, training and participation	Yr 01 – 02
Yr 01-02	7. UCCC Protocol Review and Monitoring Committee (PRMC) participation	Yr 01 – 02
Yr 01 – 02	8. Required core courses	Yr 01 – 02

Yr 01	9. Presentation of written plan to Advisory Committee and how it will be achieved by three months after program initiation, including time table and milestones	Yr 01
Yr 01/all	10. Elective courses	Yr 01 / all
Yr 01/all	11. Research project and presentation of results	Yr 01 / all
Partner with Clinician	12. Clinical trial concept, design, implementation, analysis, reporting	Yr 01 / all
End of yr 02 or 03	13. NIH style grant submission	End of yr 02 or 03
All	14. Scholars Conference	All
Throughout > 2 y	15. Training of students/residents/fellows	Throughout > 2 y
	16. Independence	

**Sample Milestones for Training Program of a Paul Calabresi Scholar (first two years)**

Year 1

1 month: Complete the selection of the mentor committee

1-3 months:

Define components of the individual training program  
Develop a proposed time table

3-6 months:

Define a research project and submit a brief research proposal

1-12 months:

PRMC Participation  
Prepare Literature Review  
Basic research experience for clinician (at least 6 months)  
Clinical research experience for basic scientist and clinician Scholars  
Scholar symposium Presentation  
Abstract submission/Presentation  
Seed grant application  
Core didactic coursework (Ethics, Trial Design, Biostatistics)

Year 2

1 month: Refine proposed time table with AC and Mentor Committee input

1-12 month:

Core didactic coursework (Statistics, Grant Writing, electives)  
Basic research experience for clinician, continued, if appropriate  
Clinical research experience  
COMIRB participation  
Design and initiate a clinical oncology study with translational component  
Abstract submission/Presentation  
Manuscript Submission  
Symposium Presentation  
Grant Submission

**What the award provides:**

- 2-5 years of mentored support
- Up to \$75,000 salary plus fringe benefits per annum
- \$30,000 per annum research and educational costs
- Structured mentoring and defined training program with a primary mentor in the Scholar's discipline and two or more additional mentors
- Scheduled formal evaluation of progress and feedback from Advisory Committee
- Further detailed description at [www.uccc.info](http://www.uccc.info).

**Eligible applicants:**

- MD, PhD, PharmD junior faculty or senior fellow
- Dedicated to career in clinical translational cancer research
- US citizen, national, or permanent resident
- Completion of clinical training in residency or clinical fellowship or completion of at least two years of postdoctoral training (for basic science candidates)

**Application:**

- 1) Face page (below)
- 2) Curriculum vitae including training history, awards, bibliography, presentations, clinical trials
- 3) A detailed personal statement (maximum two pages) demonstrating a commitment to a career in clinical oncology research, personal strengths that will insure success, a discussion of the steps needed to successfully pursue this career, examples of projects and/or the applicant's area of interest, a statement of why the individual should be chosen for the program
- 4) Previous Research Experience checklist (see below)
- 5) Three letters of reference sent directly to the Program leader, including a letter of commitment from the applicant's Chair or Division Head

**FACE PAGE**

**Application for  
Paul Calabresi Clinical Oncology Scholars  
(UCCC K12 Award)  
2007-2008**

Date \_\_\_\_\_

Applicant Name and Degree(s) \_\_\_\_\_

Applicant Title (Check one):

Assistant Professor \_\_\_\_\_

Instructor \_\_\_\_\_

Fellow \_\_\_\_\_

Clinical \_\_\_\_\_

Basic \_\_\_\_\_

Years of Fellowship Completed \_\_\_\_\_

Board Eligible (if applicable): YES \_\_\_\_\_ NO \_\_\_\_\_ N/A \_\_\_\_\_

Applicant Department/Division \_\_\_\_\_

Mentor (if known): \_\_\_\_\_

Area of Research Interest \_\_\_\_\_

Brief Summary of Career Research Goals (1/2 page maximum):

**Check List for Previous Research Experience**

1. Have you participated in research? Yes\_\_\_ No\_\_\_  
In what setting?
  
2. Have you evidence of any scholarly activity during previous training? (Talk presentations, clinical case reports, teaching awards, etc.) Yes\_\_\_ No\_\_\_
  
3. What type of research and for how long has it been pursued?  
Laboratory\_\_\_  
Clinical Treatment Protocol\_\_\_  
Epidemiologic\_\_\_  
Behavioral\_\_\_  
Cancer prevention/Control Protocol\_\_\_  
Other\_\_\_
  
4. Have you published any papers? Yes\_\_\_ No\_\_\_  
Examples:
  
5. Have you presented any abstracts? Yes\_\_\_ No\_\_\_  
Examples:
  
6. Have you received any grants? Yes\_\_\_ No\_\_\_  
Examples:
  
7. Do you have any advanced degrees in addition to M.D., D.O. or Ph.D.?  
Yes\_\_\_ No\_\_\_  
Which:  
Thesis Project (if applicable):
  
8. What relevant coursework have you completed during your clinical training (if any)? Does this fulfill one or more of the core didactic requirements? Indicate which ones.

**CLSC 7200 – Clinical Outcomes Assessment**

This course provides an overview of the field of clinical outcomes assessment. It will prepare students to identify the patient risk factors, which may influence outcomes, and to select a set of outcomes appropriate to use in a given situation based on critical appraisal of the literature in context of the research project's goals and objectives. Students also will learn how to develop a project implementation strategy.

**CLSC 7151 – Lectures in Ethics and Regulation in Human Subject Review**

This course will provide an overview of the field of ethics in clinical research. It is designed for non-Clinical Science degree and certificate students and investigators who will be conducting research involving

human subjects. Topics include the historical background, current regulations, and IRB requirements.

CLSC 6500/6501 – Introduction to Research Methods (CLSC 6500 – Introduction to Pediatric Research or CLSC 6501 – Introduction to Adult Medicine Research)

An introduction to the general field of clinical science with a focus on topics relevant to clinical research in the field of pediatrics. Designed for individuals who are interested in learning the fundamentals of how to prepare a scientific research proposal.

CLSC 6550 -- Applications of Biostatistics to Clinical Research Questions

An introduction to allow clinician-scientists to be a critical consumers of the medical literature by improving their ability to discuss statistical issues about their own research and the research of others. A familiarity will be gained with many commonly used statistical methods, and statistical terms. Finally, students will improve their ability to determine when to seek assistance from a statistician.

CLSC 6700 – Evidence-Based Medicine

This course is designed to provide a basic introduction to the quickly evolving field of clinical science related to evidence based medicine and health care. Students will learn how to critically appraise the literature, evaluate diagnostic test performance, evaluate alternative therapies, use/design clinical pathways, and implement evidenced based medicine findings in their own clinical practice settings.

CLSC 7155 – Advanced Bioethics

This course will provide an in-depth understanding of advanced bioethics – where the frontiers for ethical clinical decision-making currently exist – and also provide a broad-based overview of all aspects of responsible conduct of research according to NIH standards.

PRMD 6622 – Cancer Prevention and Control

PHSC 7530 – Cancer: Experimental and Medical Aspects

CLSC 7650- Practicum in Cancer Clinical Research

**Criteria for selection:**

- 1) Excellence of training and board eligibility, as applicable
- 2) Appropriateness of training for a human-oriented oncology research career
- 3) Evidence of scholarship
- 4) Clarity of career direction and goals
- 5) Supportiveness of references

Principal Investigator/Program Director (Last, First, Middle): Kane, Madeleine A., MD, PhD

- 6) Commitment to human-oriented oncology research career
- 7) Potential for clinical research in oncology success based on research/scholarship activities during training, letters of reference, personal statement, interview

***Instructions for electronic submission:***

Submit complete electronic application to [agnes.cook@ucdenver.edu](mailto:agnes.cook@ucdenver.edu) with cc: to [madeleine.kane@ucdenver.edu](mailto:madeleine.kane@ucdenver.edu)

Also bring or mail a complete hard copy to: Agnes Cook, MS F704, Anschutz Cancer Pavilion (ACP), 1665 Ursula St. Room CP-2251, Aurora, CO 80045 Phone: 720 848-5228

Deadline: Wednesday, December 17, 2008, 5:00pm  
(NO EXCEPTIONS)

Earliest Start Date: February 1, 2009

***For more information:***

Contact Madeleine Kane, MD PhD, Professor of Medical Oncology, and Program Leader with any questions. [madeleine.kane@ucdenver.edu](mailto:madeleine.kane@ucdenver.edu) 720-848-0354