

Introduction to Clinical and Translational Research at UMB

Mary-Claire Roghmann, MD, MS
John D. Sorkin, MD, PhD

Co-sponsored by the Clinical Research Education and Training Program, Department of Epidemiology and Public Health, the Claude D. Pepper Older Adult Independence Center and the UM Clinical and Translational Science Institute



NIH Roadmap

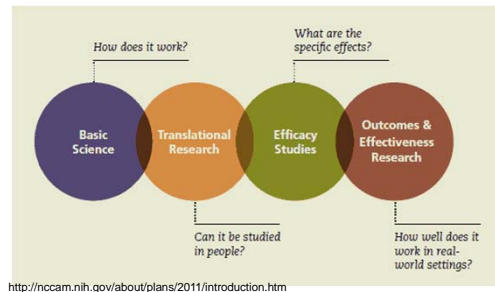
“It is the responsibility of those of us involved in today’s biomedical research enterprise to translate the remarkable scientific innovations we are witnessing into health gains for the nation”

Elias Zerhouni, MD
Former Director, National Institutes of Health
NEJM 2005

Four Phases of Translational Research

- Phase 1 translation (T1) research seeks to move a basic discovery into a candidate health application.
- Phase 2 translation (T2) research assesses the value of T1 application for health practice leading to the development of evidence-based guidelines.
- Phase 3 translation (T3) research attempts to move evidence-based guidelines into health practice, through delivery, dissemination, and diffusion research.
- Phase 4 translation (T4) research seeks to evaluate the "real world" health outcomes of a T1 application in practice.

What is Clinical and Translational Research?



<http://nccam.nih.gov/about/plans/2011/introduction.htm>

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Tools for Clinical Investigation

Education and Training	Support Services	Physical Infrastructure
PhD (many fields)	IRB	General Clinical Research Center
MS in Clinical Research	Scientific writing	Informatics
Certificate in Clinical Research	Study coordinators	Imaging core
Non-degree training	Recruitment registry	Core labs
Coordinator training		Sample storage

Course Objectives

- Identify a research question
- Pick a study design
- Collect and manage data
- Analyze data
- Write an abstract
- Present a poster
- Give an oral presentation
- Publish a paper
- Prepare a grant
- Identify institutional resources
- Appreciate the ethical, legal and regulatory issues in human subjects research
- Understand the multidisciplinary nature of research
- Recognize career opportunities in clinical and translational research

Suggested (but not required) Textbook

- Designing Clinical Research. 4th Edition. Stephen B. Hulley, Steven R. Cummings, Warren S. Browner, Deborah G. Grady and Thomas B. Newman. (<=\$78)

Important Websites

- Clinical Research Training and Education Program
 - medschool.umaryland.edu/K30/default.asp
- Office of Research Career Development
 - medschool.umaryland.edu/career/
- General Clinical Research Center
 - medschool.umaryland.edu/GCRC/default.asp
- Human Research Protections Office
 - hrpo.umaryland.edu/
- Office of Research and Development
 - ord.umaryland.edu/

Other “Handouts”

- Presenter List
- UMB Institutes, Centers and Programs
- Introduction to Basic Research Course
 - Registration closes 8/6

Other Important Details

- Sign in if you want a Certificate of Attendance
- Register for PREV616 in fall semester if you are a current graduate student who wants credit
- Download handouts each day
 - Best wi-fi UMB eduroam
 - <http://www.umaryland.edu/cits/services/communications/eduroam>
- Food and drink rules for room
- Restroom location
- Put laptops, cell phones and beepers on mute
- Be on time for and be engaged during presentations
- Fill out on-line evaluations

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Questions?

