Master of Science in Clinical Research

KL2 – Mentored Clinical and Translational Research Scholars

TL1 – Medical Scientist Training

Research Education, Training, & Career Development Program

NIH-FUNDED CLINICAL AND TRANSLATIONAL SCIENCE AWARD
ATLANTA CLINICAL & TRANSLATIONAL SCIENCE INSTITUTE (ACTSI)
Master of Science in Clinical Research

In order to achieve excellence in the 21st century investigators undertaking clinical and translational research must couple their knowledge of medicine and biology with analytic sciences, including statistical reasoning, decision analysis, probability theory, analytical epidemiology, and informatics. They must also have an understanding of the principles of evidence-based medicine, implementation science, bioethics, clinical trial design, regulations involving human subjects and animals, scientific and grant writing, and responsible conduct of research.

The Master of Science in Clinical Research (MSCR) degree program from the Emory University Laney Graduate School provides didactic and mentored clinical and translational research training to both postdoctoral and predoctoral trainees, who are committed to careers in clinical investigations. This includes participants who hold a doctorate or equivalent degree (such as physicians and PhD-level scientists) as well as predoctoral (medical or PhD graduate) students. Predoctoral trainees may apply to the MSCR program through the TL1-Medical Scientist Training Program (dual degree program).

The MSCR requires a minimum of 30 academic credit hours, which include classes, a research thesis, and a written grant proposal. Full-time students complete two semesters of class work in the first year. The summer and second year consist of completing required rotations (IRB and Clinical Research Network), research project, thesis, and grant. Mentoring is by an established and successful federally-funded clinical investigator.

Admission deadlines and application information are available on our website. For selected qualified applicants, tuition scholarships are available from the Atlanta Clinical & Translational Science Institute (ACTSI), funded by a NIH Clinical and Translational Science Award (CTSA). Further information is available online: ACTSI.org/RETCD

On the cover: (R to L) Anandi Sheth, MD, MSc; Igho Ofotokun, MD, MSc; Cecile Delille Lahiri, MD, MSc, and Renee Carlson, MD. Ofotokun, former KL2 scholar and MSCR graduate and current member of the RETCD Executive Committee, course instructor, and Journal Club Coordinator, with his current and former mentees
MSCR Curriculum

CORE COURSES

• Introduction to Clinical and Translational Research
• Analytic Methods for Clinical and Translational Research I and II
• Biostatistics
• Data Management
• Community Engagement/Health Disparities in Clinical Research
• Clinical Trial Design and Analysis
• Scientific and Grant Writing for Clinical and Translational Research
• Fundamentals of Bioinformatics
• Clinical Research Colloquium
• Analysis of Clinical Research Data
• Health Services Research
• Ethical, Legal, and Social Issues of Responsible Clinical Research
• Clinical Research Network (CRN) Rotation
• Institutional Review Board (IRB) Rotation

ELECTIVE COURSES

Electives offered include Behavioral Science and Health Education, Bioinformatics, Biostatistics, Epidemiology, Health Policy and Management, and Biology and Biological Sciences. Also offered are tracks in Global Health and Biomedical Informatics.
RETCD EXECUTIVE COMMITTEE

Henry M. Blumberg, MD, Program Director
Professor of Medicine, Division of Infectious Diseases
Emory University School of Medicine
Professor of Epidemiology and Global Health
Emory University Rollins School of Public Health

Thomas R. Ziegler, MD, Program Co-Director
Director, TL1 and Associate Director, Emory Clinical Research Network (CRN)
Director, Center for Clinical and Molecular Nutrition
Professor of Medicine, Division of Endocrinology, Metabolism, and Lipids
Emory University School of Medicine

Jessica A. Alvarez, PhD, RD
Assistant Professor of Medicine,
Division of Endocrinology, Metabolism, and Lipids
Associate Director, Certificate Program in Translational Research
Emory University School of Medicine

Pamela Bhatti, PhD, MSc, Co-Director, Georgia Tech
Associate Professor School of Electrical and Computer Engineering
Georgia Institute of Technology
Adjunct Assistant Professor, Department of Rehabilitation Medicine
Emory University

Dawn Comeau, PhD, MPH
RETCD Program Evaluator
Assistant Research Professor of Behavioral Sciences and Health Education
Emory University Rollins School of Public Health

Cam Escoffery, PhD, MPH, CHES
Associate Professor of Behavioral Sciences and Health Education Sciences
Emory University Rollins School of Public Health

Anne Fitzpatrick, PhD, MSc
Associate Professor of Pediatrics, Division of Pulmonology, Allergy/Immunology, Cystic Fibrosis, and Sleep
Director, ACTSI Pediatric Research Unit
Emory University School of Medicine

Mitchel Klein, PhD
Research Assistant Professor of Environmental and Occupational Health Epidemiology
Emory University Rollins School of Public Health

Amita Manatunga, PhD
Professor of Biostatistics and Bioinformatics
Emory University Rollins School of Public Health

Patricia Marsteller, PhD
Director, Emory College Center for Science Education
Hughes Science Initiative and SURE
Emory University

Greg S. Martin, MD, MSc
Program Director, Clinical Research Network
Co-PI, ACTSI
Professor of Medicine and Associate Division Director for Critical Care, Division of Pulmonary, Allergy, and Critical Care Medicine
Emory University School of Medicine
Director of Research, Emory Center for Critical Care

John E. McGowan Jr., MD, MSCR Co-Director
Professor of Epidemiology
Emory University Rollins School of Public Health
Professor of Medicine (Infectious Diseases)
Emory University School of Medicine

Igho Ofotokun, MD, MSc
Associate Professor of Medicine, Division of Infectious Diseases
Emory University School of Medicine

Douglas F. Paulsen, PhD, Co-Director, MSM
Associate Dean for Graduate Studies
Director, MS and PhD Programs in Biomedical Sciences
Professor of Pathology and Anatomy
Morehouse School of Medicine

Alexander Quarshie, MD, MSc, Co-Director, MSM
Associate Director, Morehouse School of Medicine MSCR Program
Director, Biostatistical and Data Management Center
Research Assistant Professor of Community Health and Preventive Medicine
Morehouse School of Medicine
William M. Shafer, PhD  
Professor of Microbiology and Immunology  
Graduate Division of Biological and Biomedical Sciences  
Emory University  
Senior Research Career Scientist  
VA Medical Center (Atlanta)

Andi L. Shane, MD, MPH, MSc  
Associate Professor of Pediatrics, Division of Infectious Diseases  
Marcus Professor of Hospital Epidemiology and Infection Control  
Emory University School of Medicine  
Children’s Healthcare of Atlanta

RETCD OTHER FACULTY

Kathy Griendling, PhD  
Janet Gross, PhD  
David M. Guidot, MD  
Robert Gulberg, PhD  
Clifford J. Gunthel, MD  
Jason Hockenberry, PhD  
David Howard, PhD  
Paul Johnson, MD  
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Todd Sherer, PhD  
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Kristin Wall, PhD  
Lance Waller, PhD  
Andrew West, MBA, MHA  
Kristen West, JD  
Mia White, MILS, AHIP  
Michael Zwick, PhD
MSCR Application Process

MSCR applications are reviewed by the Research Education, Training, & Career Development (RETCD) Executive Committee. Candidates are selected on the basis of academic qualifications, departmental recommendations, diversity, and multidisciplinary background. Information on the programs, applications, and instructions are available online: ACTSI.org/RETCD

KL2 – MENTORED CLINICAL AND TRANSLATIONAL RESEARCH SCHOLARS

The KL2 - Mentored Clinical and Translational Research Scholars program is supported by a NIH Clinical and Translational Science Award (CTSA) and provides didactic and mentored clinical and translational research training. The program is open to Emory University, Georgia Institute of Technology, and Morehouse School of Medicine junior faculty with a doctorate (MD or PhD), at the level of instructor or assistant professor, who are committed to a career in clinical and/or translational research. The MSCR is the didactic portion of the research training. Those funded receive 75% salary support, research costs, and tuition for the MSCR. Candidates are selected through a competitive process. Applications are due on March 1.
TL1 – MEDICAL SCIENTIST TRAINING
The MD/MSCR and PhD/MSCR dual degree programs support predoctoral clinical and translational research training for medical students and other health professionals pursuing doctorate degrees in public health, biomedical sciences, and nursing. Stipends and tuition support are available under the Medical Scientist Training Program to candidates not supported by a NIH or other federal grant. Application and further information is available online: ACTSI.org/RETCD

MSCR APPLICATION
For application to the Master of Science in Clinical Research (MSCR) degree program, the following must be submitted by email to csroka@emory.edu
1. NIH Biosketch
2. Research project thesis proposal
3. Commitment letter* from Department Chair to provide:
   Applicant salary/stipend during study
   Protected time to complete requirements
   Thesis research mentor
4. Mentor NIH Biosketch, other support, and commitment letter*
5. Request for tuition scholarship if applicable
   * Letters should be sent directly from the writer
Further information about the **ACTSI Research Education, Training, & Career Development program** (MSCR, KL2, and TL1) is available online: [ACTSI.org/RETCD](http://ACTSI.org/RETCD)

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