



Education at URMC – Program Features



Program: Translational Biomedical Science

Program Chair: PJ Simpson-Haidaris, Ph.D.

Program Coordinator: Katie Libby

Current Faculty Members: 35

Degree offered: Ph.D. in Translational Biomedical Science

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About the Program

The goal of the PhD in Translational Biomedical Science is to prepare individuals for investigative and clinical careers relating to the translation of basic biomedical research into clinical strategies to improve health, and to stimulate targeting of basic scientific research towards pursuit of mechanisms and causes of and optimal therapies to prevent and cure human disease. Specific program objectives are to:

- Prepare individuals in fundamentals of basic disease pathophysiology.
- Provide in-depth mentoring to assure productive research training.
- Educate scientists and clinicians for independent research careers.
- Teach fundamental theory and knowledge in the subject areas of biostatistics, epidemiology, laboratory methods, human subjects research and analytical procedures essential to clinical research.
- Provide a critical environment fostering inquiry, integrity, teaching and communication skills, high productivity, and working in a multi-disciplinary environment.

Facilities

The program is housed in the new Saunders Research Building located on Crittenden Boulevard next to the School of Nursing. The Saunders Research Building serves as the hub of clinical and translational medicine for both the Medical Center and a network of researchers across the state.

Research

Rotations in the first year of study in different laboratories introduce the student to the scientific thought and method. Students gain experience in research, attend research seminars, and practice their communication skills. Furthermore they become familiar with prospective research advisors for their thesis project.

At the end of the first year, students choose a permanent advisor and embark on a PhD thesis research program. Students may choose as their primary research advisor any faculty member on the School of Medicine and Dentistry Interdisciplinary Graduate Program faculty of designated mentors.

What makes us Unique?

The PhD program in Translational Biomedical Science was created by the faculty and members of the University of Rochester Clinical and Translational Science Institute (CTSI). The CTSI education programs offer a series of skill-building workshops, mentor development and seminars that bring together scholars and trainees from many training programs. These opportunities provide hands-on training and practical knowledge necessary to carry out a successful research program, and also to create a community of scholars devoted to translational science.

The core curriculum for the PhD in Translational Biomedical Science offers a high degree of flexibility thereby allowing students and their mentors to design a training program that is tailored to meet the interests and career objectives of the student. The mentoring faculty members for the Translational Biomedical Science PhD program are chosen from many different basic research and clinical departments, reflecting the multidisciplinary nature of training in translational research science.

The CTSI also offers many resources to researchers. These resources include consulting services, regulatory compliance support, research funding opportunities, and use of the Clinical Research Center (CRC).