

## ELIGIBILITY REQUIREMENTS

Applicants for this training program must:

1. Be committed to an academic research career in Urology
2. Be highly regarded as a physician by those responsible for their clinical training
3. Plan to complete the clinical requirements for Urologic ACGME approved training program by the date of entry into the program (\*with the exception of University of Michigan applicants who may substitute their laboratory research year for the first year of this training program)
4. Be a U.S. citizen or a permanent resident

## APPLICATION PROCESS

All applicants will be required to submit their curriculum vitae, along with at least three letters of support, and the completed application. Applicants that receive a favorable review will be invited for an interview at which time official copies of undergraduate and medical school transcripts should be submitted. Requests for more information and an application should be directed to:

Lora Allen  
Residency Coordinator  
Department of Urology  
3875 Taubman Center  
1500 E. Medical Center Dr., SPC 5330  
Ann Arbor, MI 48109-5330  
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THE MICHIGAN DIFFERENCE

University of Michigan  
Department of Urology  
3875 Taubman Center  
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More detailed information may be found on the  
Department of Urology's website:  
<http://www.med.umich.edu/urology>

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## CLINICAL AND TRANSLATIONAL RESEARCH TRAINING IN UROLOGY

University of Michigan  
Department of Urology



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### PROGRAM DIRECTORS:

John T. Wei, MD, Professor  
James E. Montie, MD, Professor

### PROGRAM FACULTY:

#### Urology

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Arul Chinnaiyan, MD, Professor  
John O. Delancey, MD, Professor  
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Brent K. Hollenbeck, MD, MS, Associate Professor  
Jerilyn M. Latini, MD, Assistant Professor  
Cheryl T. Lee, MD, Associate Professor  
Monica Liebert, PHD, Professor  
Edward J. McGuire, MD, Professor  
David C. Miller, MD, MPH, Assistant Professor  
James E. Montie, MD, Professor  
Dana A. Ohl, MD, Professor  
John Park, MD, Associate Professor  
William W. Roberts, M.D., Assistant Professor  
Aruna Sarma, PhD., Assistant Professor  
Julian Wan, MD, Clinical Associate Professor  
J. Stuart Wolf, MD, Professor  
David P. Wood, MD, Professor  
Sean Zhang, PHD, Research Investigator

#### Internal Medicine/Oncology:

Kathleen Cooney, MD, Professor  
Maha Hussain, MD, Professor  
Kenneth J. Pienta, MD, Professor  
Vahakn Shahinian, MD, Assistant Professor

#### School of Public Health (Epidemiology and Biostatistics)

Hal Morgenstern, PhD, Professor  
Aruna Sarma, PHD, Assistant Professor  
Catherine Spino, MD, Associate Professor

# THE CLINICAL AND TRANSLATIONAL RESEARCH TRAINING PROGRAM IN UROLOGY

The Clinical and Translational Research Training Program in Urology is designed to prepare urologists for an independent clinical and/or health services research career in the field of Urology. This NIH-funded training program is supported by the Departments of Urology, Internal Medicine, Epidemiology, and Biostatistics at the University of Michigan. This program offers two years of post-residency graduate level training to allow young physicians to acquire new skills and training necessary to conduct high quality clinical research. Applicants should be at the post doctoral (MD) level and are expected to have completed an ACGME approved urology residency by the time they begin the clinical research-training program in Urology. Upon successful completion of the program, fellows are expected to pursue an academic position or further training in a mentored setting, such as a career development award.

## PROGRAM COMPONENTS

The goals of this training program are to provide the fellow with:

- 1) the necessary background in biostatistics, epidemiology, clinical study design, health services research and
- 2) an opportunity to apply these clinical research skills in a mentored setting.

## Year One

During this year, the trainee will participate in all the coursework required by the Rackham Graduate School to obtain a Masters degree. The trainee has the opportunity to select one of the following degrees:

### Master of Public Health in Epidemiology

[www.sph.umich.edu/epid/programs/general\\_epid.html](http://www.sph.umich.edu/epid/programs/general_epid.html)

### Master of Science in Clinical Research and Statistical Design

[www.umich.edu/~bhlumrec/acad\\_unit/rackham/degree\\_req/www.rackham.umich.edu/Programs/biohealth.sci/crdsa.html#degrees](http://www.umich.edu/~bhlumrec/acad_unit/rackham/degree_req/www.rackham.umich.edu/Programs/biohealth.sci/crdsa.html#degrees)

### Master of Science in Health Administration

[www.sph.umich.edu/hmp/programs/masters/mhsa.html](http://www.sph.umich.edu/hmp/programs/masters/mhsa.html)

### Master of Science in Health Services Research

[www.sph.umich.edu/hmp/programs/masters/ms-hsr.htm](http://www.sph.umich.edu/hmp/programs/masters/ms-hsr.htm)

The concepts and methodology behind clinical and health services research will be taught in detail, and trainees will learn how to solve problems relating to the incidence and outcomes of human disease using specific examples. Emphasis will be placed on understanding various aspects of clinical study designs, analyses and implications for health care. Electives are available, and can be selected from the vast offerings from the School of Public Health.

The trainee will identify a research mentor and begin to plan his/her main clinical research project. Together with the mentor, the trainee will design a study protocol following the NIH format for a major clinical research project that will be completed in the second year of this program. Emphasis in

this training program will be placed on training in preparation for submitting NIH level grants.

## Year Two

By the beginning of year two, the fellow will have acquired much of the skills necessary to carry out a high quality clinical research endeavor, and will be expected to put these skills into practice. He or she will be required to initiate, complete and report in a peer-reviewed journal, an independent clinical research project relevant to Urology. Existing databases in the Department of Urology include benign prostatic hyperplasia, prostate cancer detection, radical prostatectomy, bladder cancer, impotence, female and reconstructive urology, laparoscopy, endourology and population-based cohort study of prostate diseases among African-American men. These databases exemplify the breadth of clinical research topics from which the trainee may choose.

## CLINICAL RESPONSIBILITIES

Trainees must commit 40 hours per week to the program and its related research activities, consonant with NRSA guidelines. Within the full-time training period, research trainees who are also training as clinicians must devote their time to the proposed research training and must confine clinical duties to those that are an integral part of the research training experience. This will ensure that the trainee has sufficient time to attend classes. To maintain surgical skills and remain involved in clinical medicine, trainees may elect to participate in clinical care beyond the 40 hours per week of the program. This additional clinical effort will be limited to 20 hours per week.

## REQUIRED CONFERENCES

During the course of the training program, the trainee will be expected to participate in conferences/seminars conducted within the University of Michigan Medical Center. These are designed to provide the trainee with exposure to clinical urology, research ethics, basic science research and health services research. The Department of Urology offers weekly conferences in Urologic Oncology, Pediatric Uroradiology, Uropathology and Grand Rounds. In addition, the trainee will participate in PIBS 507-508: An Introduction to Translational Research Seminars offered by the Michigan Institute for Clinical & Health Research.

## PROGRAM EXPECTATIONS

The trainee is expected to complete all the required coursework and fulfill requirements of the Rackham Graduate School. In addition, he/she is required to carry out a well-designed clinical research project using primary data collection or secondary datasets, to present this research at regional and national meetings, and to have at least one scientific manuscript based on this project submitted to a peer reviewed journal for publication.

## LOAN REPAYMENT PROGRAM

Trainees of this program are eligible for support from NIH in repaying educational loans.