Immunology

Director
• Steven M. Varga (Microbiology and Immunology/Pathology)

Faculty: https://medicine.uiowa.edu/immuno/faculty
Website: https://medicine.uiowa.edu/immuno/

The Immunology Program provides interdisciplinary training in the concepts and methodologies of basic and applied immunology. Faculty members are involved in a variety of research projects dealing with the immune system at all levels—structural, functional, cellular, biochemical, and molecular. Students take course work in immunology and related disciplines and are involved directly in laboratory research throughout their study.

Programs

Graduate Program of Study

Major
• Doctor of Philosophy in Immunology

Students interested in doctoral studies in immunology should apply under the umbrella program in Biomedical Science (select immunology subprogram). Direct application to the Ph.D. in immunology is not currently being considered. Students who entered the graduate immunology program prior to fall 2017 can refer to the 2015-16 General Catalog for previous degree requirements.

Facilities

Training is conducted in laboratories and teaching facilities of the Carver College of Medicine Stead Family Department of Pediatrics and the Departments of Internal Medicine, Otolaryngology—Head and Neck Surgery, Pathology, Microbiology and Immunology, Pharmacology, and Urology; and the College of Public Health Department of Epidemiology. Faculty laboratories and central research core facilities provide students with access to state-of-the-art research equipment.

Courses

Immunology Courses

IMMU:2040 Summer Undergraduate IDGP Research 0 s.h.
IMMU:6201 Graduate Immunology 3 s.h.
Ontogeny, activation, and function of T lymphocytes and B lymphocytes; innate immune effector mechanisms; major histocompatibility complex; antigen presentation; thymocyte positive and negative selection; signaling of T lymphocytes, B lymphocytes; emphasis on experimental methods for analysis of these processes. Requirements: for IMMU:6201—college biology, general chemistry, and introductory immunology courses; for MICR:6201—courses in college biology, genetics, general chemistry, and introductory immunology. Recommendations: for IMMU:6201—courses in biochemistry and genetics; for MICR:6201—biochemistry course. Same as MICR:6201.