**URL**: <http://www.utoledo.edu/nsm/ic/>

**Director**: William T. Gunning III, Ph.D.

*Professor of Pathology*

Health Science Campus

419.383.4918 Office Phone

419.383.3484 Lab Phone

[William.Gunning@utoledo.edu](mailto:William.gunning@utoledo.edu)

**Description**

*Location:* Health Science Campus | Paul Block Heath Science Building, Suite 29

|  |  |
| --- | --- |
| **Description** | **Total Square Footage** |
| **Approximate Square Footage** | **1,800** |
| 2 TEM Rooms | 50 sq. ft. each | 320 |
| 2 Film Darkrooms | 100 |
| 1 Microscopy Office | 103 |
| 1 Chiller Room | 70 |
| 1 Ultra-Microtomy Room | 180 |
| 1 General Laboratory | 610 |
| 1 Sample Preparation Room | 216 |
| 1 Histology Laboratory | 203 |

**Facility Management and Utilization**

The Electron Microscopy Facility at The University of Toledo Medical Center (UTMC) functions as a University Core Laboratory. It is a Division of the Department of Pathology and is managed by William T. Gunning Ph.D., Director of Electron Microscopy.

The facility has three major functions which include:

1. A clinical service component which averages approximately 900 human specimens

annually

1. A research service and support component for the faculty, staff, and students of The

University of Toledo

1. A teaching component in which residents, graduate and medical students have access to

the laboratory equipment.

The facility has research users from throughout the institution including faculty from the following colleges/departments:

* College of Medicine and Life Sciences
  + Cancer Biology
  + Medicine
  + Medical Microbiology and Immunology
  + Neurology
  + Neurosciences
  + Pathology
  + Pharmacology and Physiology
  + Surgery
  + Urology
* College of Natural Sciences and Mathematics
  + Biological Sciences
  + Chemistry and Biochemistry
* College of Health and Human Services
  + Exercise and Rehabilitation Sciences
* College of Pharmacy and Pharmaceutical Sciences
  + Medicinal and Biological Chemistry
  + Pharmacology and Experimental Therapeutics.

This facility welcomes UToledo investigators from all campuses, and industrial researchers, technicians, and students from the surrounding community.

**Major Equipment**

* FEI Technai Spirit Transmission Electron Microscope
* Philips CM10 Transmission Electron Microscope
* Denton 502 Vacuum Evaporator
* Leica Ultracut UC6
* Reichert Ultracut S Microtome
* OMU3 Ultramicrotome C. Reichert, Austria
* MT6000-XL Ultramicrotome RMC, Inc.
* Mohr Pro8 Film Processor
* EMS EM Microwave Processor
* Olympus BH Light Microscope
* Nikon Optiphot Light Microscope
* AO Stereo Microscope

**Technical Staff**

* 2.0 FTE (Hospital Employees)
* FTE (Advanced Microscopy Core Laboratory Employee)