

HISTOLOGY FOR TOXICOLOGIC PATHOLOGY

16:963:502

Course Directors: Dr. Ken Reuhl
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Office hours as needed

Course Objectives: The primary objective of this course is to give students working familiarity with the structure (gross and microscopic) of the major tissues of the mammal. Ability to recognize tissue types by light microscopy will be essential for successful completion of the Toxicological Pathology course.

The Histology Course consists of lectures supplemented by self-instruction via microscope slides, gross specimens, CD instructional aids, web-based histology sites and textbooks/atlas. The faculty will be available for tutorials, one-on-one instruction, and review.

The Histology and Toxicologic Pathology courses are considered to represent a course sequence and exercises for both courses are scheduled across the academic year. Among the exercises scheduled for the year are:

- training in the use of the light microscope
- small mammal necropsy and 'diagnosis' of unknown toxicant
- necropsy of alternative species (fish, invertebrates)
- tissue preparation, microtomy and staining
- immunofluorescence and special techniques microscopy
- elective human autopsy at Middlesex Medical Examiner's Office

LECTURE SCHEDULE

Topics	Instructors
Epithelium	K. Reuhl
Connective Tissues	K. Reuhl
Hepatobiliary System	K. Reuhl
Urinary System	K. Reuhl
Cardiovascular System	K. Cooper
Respiratory System	K. Cooper
Gastrointestinal System	K. Reuhl
Endocrine and Reproductive Systems	M. Gallo
Skin	K. Reuhl
Clinical Chemistry	M. Goedken
Nervous System	K. Reuhl
Comparative Histology	K. Cooper
Labs	
Necropsy Lab	
Comparative Pathology Lab	
Special Techniques Lab	