

CTSC 5270

Hepatobiliary Pathobiology

Faculty: Harmeet Malhi, MBBS

Credits: 1

Quarter: Summer (even years)

Prerequisites: None

Overview

This introductory course is designed to teach hepatobiliary pathobiology through a series of interactive lectures covering a broad range of topics within the field. The focus of the course is:

- i) to cover the mechanisms of liver injury
- ii) emphasize basic hepatobiliary pathophysiology with a strong emphasis on research methodology
- iii) explore cutting edge areas of hepatobiliary pathophysiology research with translational applicability

Areas of research approaches will include state of the art cellular and molecular biology methods. Principles and methodologies of cancer genetics and genetics of complex disease relevant to liver disorders will be presented. Emerging knowledge on the role of the microbiome, microRNA's and experimental therapeutics from experimental approaches, *in vitro*, to *in vivo* concepts, to animal models are incorporated in the presentations.

Objectives

By the end of this course students should be able to:

- Acquire understanding of cellular and organ pathobiology that forms the basis of chronic liver diseases
- Develop awareness of emerging research designs and techniques
- Demonstrate the ability to translate to clinical relevance cellular and signaling mechanisms

Evaluation

Students will be evaluated on weekly quizzes and a written review. Students are expected to attend and participate in all class sessions.

Students should expect to spend approximately two to four hours of time per week on this 1-credit course.

For specific dates and times this course is provided, please see the [quarterly detailed course schedule](#).

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