UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Immunologia del Fegato: Malattie Autoimmuni del Fegato

1819-4-H4101D291

Aims

The elective course is focused on the more recent advances in our knowledge related to the loss of liver tolerance that leads to overactivation of the innate and adaptive immune response and the development of autoimmune liver diseases, such as autoimmune hepatitis, primary biliary cholangitis, and primary sclerosing cholangitis.

In particular, the course will capture the underlying immunomolecular mechanisms of the development and progression of autoimmune liver diseases, the novel field of the immune-related "liver-gut" axis influences to the development of liver autoimmunity, the predominant role of genetic factors, and the increasingly effective immuno-therapeutic possibilities.

Contents

The study of the liver as a lymphoid organ is a growing field fueled by our better knowledge of the different component of the immune system and how they orchestrate an immune-related response. The liver have highly specialized mechanisms of immune tolerance, mainly because is continuously exposed to microbial and environmental antigens, and dietary components from the gut. Growing evidences show that the liver produces a pletora of neo-antigens being the primary metabolic organ of the body.

Common immune mechanisms play a key pathogenetic role in most of acute and chronic liver diseases and in the rejection of liver allografts.

Any perturbations of liver-related immune functions have important clinical implications, such as the development of autoimmune liver diseases, i.e. autoimmune hepatitis, primary biliary cholangitis, and primary sclerosing cholangitis, a great paradox for a tolerogenic organ.

Detailed program

Pathophysiology of the hepatic immune system.

Autoimmune hepatitis.

Primary biliary cholangitis.

Primary sclerosing cholangitis.

IgG4-related cholangitis.

Overlap syndromes.

Prerequisites

Medical student from years 4 to 6

10 students minimum

Teaching form

Lectures

Textbook and teaching resource

Semester

Assessment method

Interactive verification at the course conclusion

Office hours