

Graduate Program in Molecular Cell Biology:

Special Lecture/Course in: Immunology

Lecturer: Posch, Stoitzner, Tripp, Wilflingseder

Number: 040019

Type: Semester hours: 2

Character: VU

Time/Date: 12./13.Dez. und 19./20.Dez.

Location: Labs at the Division of Hygiene and Dermatology

Limited number of places YES, number of places min 4; max 6 , registration necessary YES

For registration or questions please contact: patrizia.stoitzner@i-med.ac.at

Aim:

Students will learn about the mouse and human immune system. The course will cover a set of techniques that allow you to evaluate leukocyte subset composition in primary and secondary hematopoietic organs and how to isolate different immune cell types for in vitro assays.

Description/contents:

You will learn how to isolate different immune cell types from blood, bone marrow and lymphatic organs, including DC, monocytes, macrophages, NK and T cells. Phagocytosis assays and cytotoxicity assays will be performed. Methodology involved: mouse necropsy; leukocyte isolation (magnetic bead selection); immune phenotyping (flow cytometry), phagocytosis assay, primary tissue culture & in vitro differentiation; co-culture of immune cells.

Suggested reading:

Cellular and Molecular Immunology Abbas et al., 2017

Best suited for newcomers to this field