

CIR 843 IMMUNE AND INFLAMMATORY ASPECTS OF REJECTION

Workload: 30 h

Credits: 2

Nature: Optional Mater and PhD

Professor: Andy Petroianu

Discipline Syllabus: It aims to study the cellular and molecular mechanisms in the immune response to organ and tissue transplantation. It addresses the role of the immune system, the role of interleukins and tumor necrosis factor in the organic response to transplantation and the mechanism of action of immunosuppressive drugs. Evaluation will be performed considering written report, participation in activities and integration with colleagues and teacher.

Wang LL, Li ZH, Hu XH, Muyayalo KP, Zhang YH, Liao AH. The roles of the PD-1/PD-L1 pathway at immunologically privileged sites. *Am J Reprod Immunol.* 2017.

Starr SP. Immunology Update: Long-Term Care of Solid Organ Transplant Recipients. *FP Essent.* 2016 Nov;450:22-27. Review.

Kim EY, Lynch L, Brennan PJ, Cohen NR, Brenner MB. The transcriptional programs of iNKT cells. *Semin Immunol.* 2015 Feb;27(1):26-32.

Speeckaert MM, Speeckaert R, Laute M, Vanholder R, Delanghe JR. Tumor necrosis factor receptors: biology and therapeutic potential in kidney diseases. *Am J Nephrol.* 2012;36(3):261-70.

FrancoSalinas G, Mai HL, Jovanovic V, Moizant F, Vanhove B, Boeffard F, Usal C, Tak PP, Souillou JP, Baeten D, Brouard S. TNF blockade abrogates the induction of T cell-dependent humoral responses in an allotransplantation model. *J Leukoc Biol.* 2011 Aug;90(2):367-75