Level: master

Course title: FOLLICULOGENESIS AND OVARIAN COMMUNICATION

Status: elective

ECTS: 3

Requirements:

Learning objectives

Achieving knowledge on signalling pathways that control ovarian folliculogenesis and functions of granulosa and theca cells.

Learning outcomes

Upon successful completion of the course, students will obtain knowledge on signalling pathways that control folliculogenesis, mechanisms of proliferation and differentiation of granulosa cells, ovulation mechanisms, and will be able to follow and understand research in this discipline.

Syllabus

Theoretical instruction

Folliculogenesis: activation of primordial follicles and pre-antral follicles formation. Signalling pathways in controlling folliculogenesis. Activities of follicle-stimulating hormone stimulating granulosa cells. Signalling mechanisms in controlling proliferation and differentiation of immature granulosa cells. The role of luteinizing hormone in controlling theca cell activities. The role of luteinizing hormone in controlling mural granulosa cell activities and ovulations. Cumulus granulosa cells and formation of extracellular matrix. Myotonic maturation of egg cell. Luteinisation and corpus luteum formation. Signalling molecules as markers of ovarian functions.

Weekly teaching load				Other:
Lectures: 2	Exercises: -	Other forms of teaching:-	Student research:-	-