UNIVERSITÁ DEGLI STUDI DI TERAMO

REPRODUCTIVE BIOTECHNOLOGIES

STRUCTURE AND FUNCTION OF REPRODUCTIVE SYSTEM:

ANATOMY OF REPRODUCTIVE SYSTEM

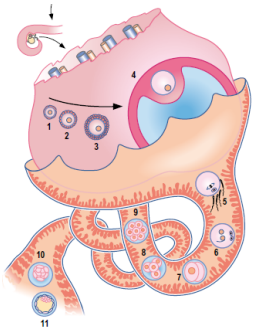
Prof. Valentina Russo

UNIVERSITÀ DEGLI STUDI DI TERAMO

Second-Cycle Degree Course in REPRODUCTIVE BIOTECHNOLOGIES

Structure and Function of the Reproductive System (I year)

- ANATOMY OF THE REPRODUCTIVE SYSTEM



LECTURER: PROF. VALENTINA RUSSO

AIMS OF THE COURSE:

- To achieve a detailed overview of the existing relations between the structure and function of the female reproductive system in domestic animals and humans;
- To provide an in-depth knowledge on the neuroendocrine mechanisms that regulate the reproductive activity

MAIN/NOVEL TOPICS:

Using the animal model, together with the advanced technologies present in our laboratories, the students will acquire the ability to manage and evaluate the ovarian components and the female gamete, in particular.
The course provides the basic knowledge necessary to deal with the next courses.

ANATOMY OF THE FEMALE REPRODUCTIVE SYSTEM

- This module aims to provide an in-depth understanding of the anatomy of the reproductive system, focusing on the relationship between the structure and function of the female reproductive system in domestic animals and humans.
- Using the animal model, the student will acquire the necessary techniques to assess reproductive structures; in particular, those of the ovaries and female gamete.

The course will cover five topics:

- macroscopic anatomy and topographic relationships of the female reproductive organs;
- cellular/tissue organization of the uterus and fallopian tubes;
- microscopic anatomy of the structures contained within the gonad and the female gamete of domestic animals and women;
- correlation between ovarian follicle growth and angiogenesis in the follicular wall;
- basic methodologies for morphological analysis, of isolated ovarian follicles and oocytes, by microscopy

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- These units foresee both lectures and practical lessons (50%).
- The latter are undertaken in laboratories where students will have autonomous use of dedicated equipment.

- There are **3 intermediate tests** to assess the students' learning level, and a final oral examination.

Prof. Russo receives students