PARTICIPATING INSTITUTIONS & PARTNERS:

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http://www.um.es/postg-biorep/
http://www.um.es/web/veterinaria Idioma/estudios/masteres/bio-tecnologia-mamiferos

MASTER COURSE OFFICIALY VALIDATED

Supported by the bilingual program of Campus Mare Nostrum

Veterinary & Medical Faculties
University of Murcia
SPAIN
OBJECTIVE:

The Master goal is delivering specialists in Biology & Technology of Reproduction with a scientific or professional (human or veterinary) profile.

MASTER CONTENTS

A total of 60 ECTS:
- Formative ECTS, 42 (30 compulsory & 12 optative)
- External Practices (Practicum) 12 ECTS
- Final Master's Dissertation 6 ECTS

1 Academic year (October 2016-September 2017).
Timetable: morning and afternoon of working days
Languages: English and Spanish.
Cost: 46.97€ each ECTS (figures for year 2015-16)

WINTER SEMESTER (October 2016-February 2017)

COMPULSORY SUBJECTS

Advanced aspects of morphology and function of the reproductive system
Fertilization and embryo development
Basic reproductive technologies of gametes and embryo manipulation

OPTIONAL SUBJECTS: SCIENTIFIC PROFILE

Basic issues of scientific activity: methods, foundations, ethics
Cell and Molecular Biology techniques applied to the Biology of Reproduction
Epigenetics in Reproductive Biology

COMPULSORY:

External practices (Practicum): 6-12 weeks stay in a Clinic of Human Reproduction (IVI Alicante, Murcia, Almería, Barcelona, Las Palmas), Hospital Reproduction Unit (Quirón-Zaragoza, Torrecárdenas-Almería, Victoria Eugenia-Sevilla) University (UAB, UCM, Alicante, Lleida, Okayama, Gante, CULS-Praga University College Dublin), Research Institution (IMIDA, INIA, CCMIU Cáceres, SERIDA Gijón, LARCEL Sevilla, FLI Mariensee-Alemania, MRBB Hohhot-China, INRA Tours-Francia) or Reproductive and/or Biotechnological Company (Rara-Avis Biotec, Proiser, IEGRA, Wild Spirit Sudafrica, Juan Jimenez Garcia, Equus Ibérica).

Master Dissertation (End of Master Work): Under a tutor's supervision the students should execute a research work (experimental or bibliographic), prepare a written report according to a scientific format (objective, state of the art, material and methods, results, discussion and conclusion) and eventually present and discuss the topic with an evaluation committee.

SECOND TERM (February 2017-September 2017)

OPTIONAL SUBJECTS: HUMAN REPRODUCTION PROFILE

Assisted reproduction in humans
Ethic and legal aspects of the life beginning and the assisted reproduction techniques in humans
Cryopreservation of gametes and embryos
Epidemiology of reproductive health

OPTIONAL SUBJECTS: VETERINARY PROFILE

Ultrasound applications in reproductive biology
Reproductive biotechnologies and recovery of endangered species
Transgenesis, gene therapy, cloning and stem cells
Cryopreservation of gametes and embryos
Epidemiology of reproductive health

OPTIONAL SUBJECTS: HUMAN REPRODUCTION PROFILE

Epidemiology of reproductive health
Cryopreservation of gametes and embryos
Reproduction techniques in humans
Ethic and legal aspects of the life beginning and the assisted reproduction techniques in humans
Cryopreservation of gametes and embryos
Epidemiology of reproductive health

TEACHING STAFF

A broad and selected list of University Academics and Scientists, not only from the University of Murcia, but also from other Universities around the world, as well as from Research Institutions and Private Companies (see Participating Institutions and Partners).