

# PARTICIPATING INSTITUTIONS & PARTNERS:

UNIVERSIDAD DE MURCIA



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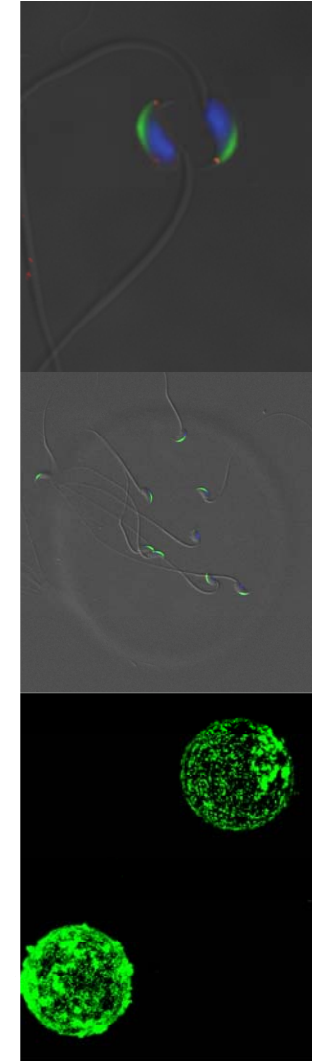
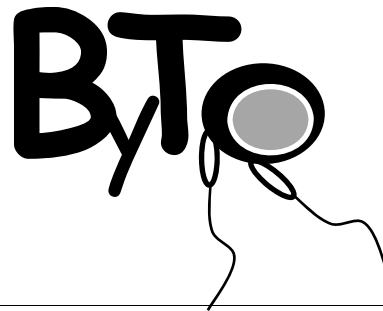
OF



Secretary  
 D<sup>a</sup>. María Luisa Nicolás Tomás  
 Phone: 868 883905  
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ACADEMIC COORDINATOR  
 Dr. Joaquín Gadea  
 Email: [jgadea@um.es](mailto:jgadea@um.es)

Further information:  
<http://www.um.es/web/veterinaria/idioma/estudios/masteres/bio-tecno-mamiferos>



# MSC in BIOLOGY & TECHNOLOG REPRODUCTION IN MAMMALS

MASTER COURSE OFFICIALY ACCREDITED

Spanish Ministry of Education Act of 22<sup>nd</sup> November 2010, BOE 16<sup>th</sup> December 2010.



Veterinary & Medical Faculties  
 University of Murcia  
 SPAIN

## OBJECTIVE:

This MSc is aimed at delivering specialists in Biology & Technology of Reproduction with a scientific or professional (human or veterinary) profile.

## MASTER CONTENT

A total of 60 ECTS.

- Formative ECTS, 42 (30 compulsory & 12 optional)
- External Practices (*Practicum*) 12 ECTS
- Master Dissertation 6 ECTS

1 Academic year (October 2014-September 2015).

**Timetable:** morning and afternoon of working days

**Languages:** English and Spanish (a B1 certificate in English is compulsory)

**Cost:** 46,97 € /credit for EU citizens, and 76,37 € /credit for non EU citizens (fees for 2013-14)

[FIRST TERM \(October 2014-January 2015\)](#)

### COMPULSORY SUBJECTS

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



[SECOND TERM \(February 2014-September 2014\)](#)

### 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 REPROD. 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: 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** (Alicante, Almería, Badajoz, Barcelona, Murcia, Logroño, Zaragoza), **University** (UAB, UCM, UPV, Alicante, Lleida, Okayama, Dublin, Gante, CZU-Praga), **Research Institution** (IMIDA, INIA, CCMIJU 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).

• 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

## INFORMATION & REGISTRATION

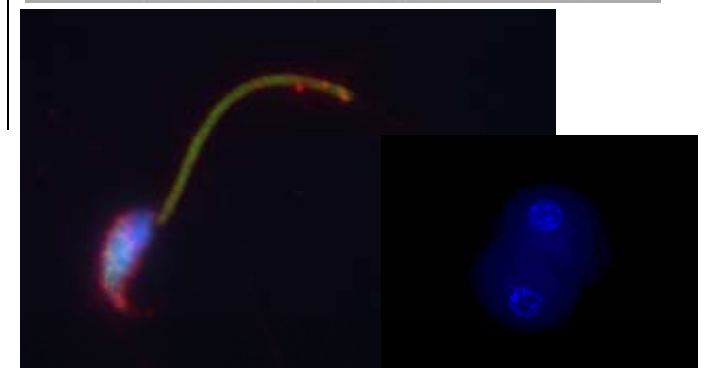
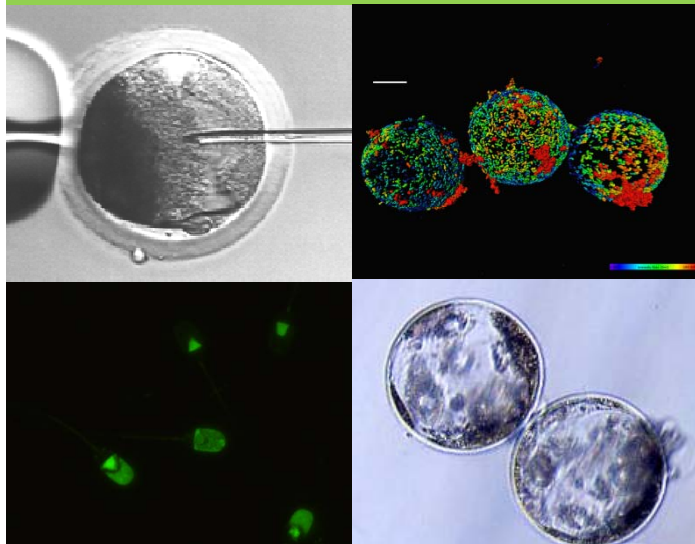
Secretary of Veterinary Faculty of Murcia- SPAIN-  
D<sup>a</sup>. María Luisa Nicolás Tomás. Phone: 34 868 883905.

E-mail: [mInt@um.es](mailto:mInt@um.es)

<https://preinscripcionmaster.um.es/preposgrado/Preposgradoweb.seam>

[2014-15 Academic Year:](#)

- First period (2014):  
**Pre-registration: 18<sup>th</sup> February -2<sup>nd</sup> May**
- Second period (2014):  
**Pre-registration: 1-18<sup>th</sup> July**
- Last chance (2014):  
**Pre-registration : 15-26<sup>th</sup> September**
- Required documents (a copy of):
  - Identity Card or Passport
  - Degree or Bachelor Title Certificate
  - Official Transcript of Records
  - Curriculum vitae
  - Personal statement
  - B1 certificate in English



### 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*).