

**Work Experience**

Code: 42952  
ECTS Credits: 0

Degree	Type	Year	Semester
4313782 Cytogenetics and Reproductive Biology	OT	0	2

**Contact**

Name: Jordi Benet Català

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**Use of Languages**

Principal working language: catalan (cat)

**External teachers**

Buscà, Rafael

Busquets, Ana

Casanovas, Aida

Durban, Mercè

Esbert, Marga

Farreras, Arantza

Giménez, Carles

Grau, Javier

Guitart, Miriam

Hernando, Cristina

Marquès, Laura

Martinez-Pasarell, Olga

Márquez, Carmen

Peinado, Laura

Plaja, Alberto

Pujol Masana, Aïda

Pujol, Nuria

Rabanal, Anna

Solé, Francesc

**Prerequisites**

The specific prerequisites for access are the following:

Be in possession of a graduate degree, graduate or equivalent in Biology, Biomedical Sciences, Genetics or Biotechnology or equivalent in the curricula of the different universities. Graduates or graduates in Microbiology or Biochemistry will also be able to access. In these cases the specific training of the students in the field of Reproduction Biology and Cytogenetic will be valued.

When necessary, the commission of the Master's Degree will urge the student to complete training complements.

Accredit a basic knowledge of Catalan (level B1) or Spanish (level B1) (only for students who do not have Catalan or Spanish as their mother tongue). In case the student cannot prove the knowledge of the language, the commission of the master's degree will interview and decide on the admission or exclusion of the student.

## **Objectives and Contextualisation**

The objective of this module is that the student acquires competences related to the professional exercise, promoting a proactive and enterprising attitude.

The Practices in Companies are carried out within the framework of the module "Practices in companies", which includes companies and public institutions. The module has a teaching load of 9 ECTS and is designed for those students who want to orientate the master's degree on the professional side.

The module includes a period of internships in public or private companies, where the student has the opportunity to consolidate their training, integrating learned knowledge, reflecting on professional skills and developing the skills acquired. In this sense, the main objective of this stage is to maximize the interaction of the students of the master's degree with the professional environment of the master's degree. To achieve this, there are collaboration agreements with different companies and public institutions that are related and of reference in the field of the master's degree.

Each student will have a practical tutor linked to the company that will supervise and evaluate their work by means of a progress report of the tasks that he has done and through the evaluation of the monitoring reports that the student will do. Regarding the monitoring reports, at least two will be one after one month of activity started and the other at the end of the stay and will have a maximum length of 300 words. They must contain information related to the schedule of the tasks carried out, the main results and the work plan foreseen in the first one and developed in the second.

In any case the academic management of the module will be done by the module coordinator who will be responsible for the following functions:

- i) To advise students what is the center most indicated to carry out the practices according to their interests and abilities
- ii) To check the suitability of the profile of the candidate to the needs of the company where he will perform the seven practices
- iii) To distribute the students in the different centers trying to satisfy their preferences to the maximum
- iv) To keep in contact with the collaborating centers to know their needs and immediate interests
- v) To evaluate the degree of satisfaction of the student once the period of practices has been completed through the revision of the "Student satisfaction sheet" form.

## **Competences**

- Apply knowledge of theory in both research and clinical care contexts.
- Apply the scientific method and critical reasoning to problem solving.
- Communicate and justify conclusions clearly and unambiguously to both specialist and non-specialist audiences.
- Continue the learning process, to a large extent autonomously.
- Design and execute analysis protocols in the area of the master's degree.
- Design experiments, analyse data and interpret findings.
- Identify the ethical dilemmas and apply current laws governing the area of knowledge of the master's degree.

- Integrate knowledge and use it to make judgements in complex situations, with incomplete information, while keeping in mind social and ethical responsibilities.
- Interpret, resolve and report on clinical cases or scientific findings in the area of the master's degree.
- Organise and manage research laboratories and clinical laboratories in the area of knowledge of the master's degree.
- Respect ethical principles in one's work.
- Show an ability to work in teams and interact with professionals from other specialist areas.
- Solve problems in new or little-known situations within broader (or multidisciplinary) contexts related to the field of study.
- Use acquired knowledge as a basis for originality in the application of ideas, often in a research context.
- Use and manage bibliography or ICT resources in the master's programme, in one's first language and in English.
- Use creative, organisational and analytic skills when taking decisions.

## Learning Outcomes

1. Analyse and interpret findings from clinical practice in cytogenetics.
2. Analyse and interpret findings from clinical practice in reproductive biology.
3. Apply ethical and legal principles in clinical practice.
4. Apply knowledge of theory in both research and clinical care contexts.
5. Apply the scientific method and critical reasoning to problem solving.
6. Communicate and justify conclusions clearly and unambiguously to both specialist and non-specialist audiences.
7. Continue the learning process, to a large extent autonomously.
8. Correctly apply the analysis methods of the laboratory where practical work is undertaken.
9. Design experiments, analyse data and interpret findings.
10. Identify and solve safety problems and specific laboratory infrastructures.
11. Integrate knowledge and use it to make judgements in complex situations, with incomplete information, while keeping in mind social and ethical responsibilities.
12. Respect ethical principles in one's work.
13. Show an ability to work in teams and interact with professionals from other specialist areas.
14. Solve problems in new or little-known situations within broader (or multidisciplinary) contexts related to the field of study.
15. Use acquired knowledge as a basis for originality in the application of ideas, often in a research context.
16. Use and manage bibliography or ICT resources in the master's programme, in one's first language and in English.
17. Use creative, organisational and analytic skills when taking decisions.

## Content

All kinds of knowledge gained during the stay in a public or private company, whose main activity must be related to the field of the master's degree.

## Methodology

- Tutorials.
- Practices of laboratory and clinical assistance.
- Works elaboration.
- Reading and commentary of articles / or texts of interest.

## Activities



Title	Hours	ECTS	Learning Outcomes
Type: Supervised			
Type: Supervised	0	0	2, 1, 8, 5, 4, 3, 13, 12, 9, 17, 10, 11, 14, 6, 7, 15, 16

## Assessment

Assessment of the monitoring reports to the module coordinator and evaluation of the module coordinator: 65%

Report of the tutor of Practices in Companies in the center: 35%

## Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Activity memory and oral presentation	Qualification by the tutor of the Center, the Coordinator and the Comission	0	0	2, 1, 8, 5, 4, 3, 13, 12, 9, 17, 10, 11, 14, 6, 7, 15, 16

## Bibliography

Bibliographic search and discussion related to the contents of the subject of the master's degree with the tutor of each center and the scientific team. Access to clinical sessions related to the subject of the master's degree.