

External Placements

Code: 43869
ECTS Credits: 9

Degree	Type	Year	Semester
4316231 Plant Biology, Genomics and Biotechnology	OB	0	2

Contact

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Use of languages

Principal working language: english (eng)

Prerequisites

Basic knowledge of English language (level B1 or above)

Objectives and Contextualisation

To introduce the student in the research work in the field of Plant Biology and Biotechnology, in the professional industrial and / or research environment

Skills

- Conceive, design, manage and develop a scientific, technical or industrial project in Biology and Biotechnology of plants and fungi, and be able to interpret and extract knowledge of the same.
- Develop critical reasoning in the area of study and in relation to the scientific and business environment.
- Solve problems in new or little-known situations within broader (or multidisciplinary) contexts related to the field of study.
- Synthesize, and analyze alternatives and debate critically.
- Use acquired knowledge as a basis for originality in the application of ideas, often in a research context.
- Use and manage bibliographical information and computer resources in the area of study.
- Work in a multidisciplinary team.

Learning outcomes

1. Choose and adopt the best methodology for the project.
2. Develop critical reasoning in the area of study and in relation to the scientific and business environment.
3. Identify the different phases in the planning of R+D+I projects in the field of biology, genomics and plant biotechnology.
4. Interpret the results obtained in experiments in order to take appropriate decisions.
5. Propose projects in the real environment of the placement company or institution that are innovative and feasible.
6. Solve problems in new or little-known situations within broader (or multidisciplinary) contexts related to the field of study.
7. Synthesize, and analyze alternatives and debate critically.
8. Use acquired knowledge as a basis for originality in the application of ideas, often in a research context.
9. Use and manage bibliographical information and computer resources in the area of study.
10. Work in a multidisciplinary team.

Content

External internships in companies or scientific institutions is a module in which the student joins a research group of a company or institution making him / her participate in fundamental phases of the R + D + i process with special emphasis on the selection and learning of Methodology and the presentation and communication of results.

The research work of the student in a specific project of the company or institution is accompanied by tutorial sessions and seminars where students with the help of tutors analyze some aspects of organization of scientific work in the institution / company.

External practices are preferably carried out in the same company or institution in which the Master's Thesis will be developed.

Methodology

The student performs research tasks in a specific project of a company or research institution. These tasks are accompanied by tutorial sessions and seminars where the student guided by the tutor analyses aspects of organization of research in the institutional or industrial environment.

Activities

Title	Hours	ECTS	Learning outcomes
Type: Directed			
Tutorial session	5	0.2	2, 4, 5, 7
Type: Supervised			
Supervised research activities	170	6.8	1, 2, 3, 4, 5, 7
Type: Autonomous			
Autonomous research activities	50	2	1, 3, 4, 5, 6, 8, 10

Evaluation

The evaluation is based on the students supervisor report (60%) the students lab experimentation report (30%) and the attendance an participation in the tutorial sessions and seminars (10%)

The students lab report is a summary (maximum 2 DINA4 pages) of the activities performed during the External Practicum stay, with special emphasis on methodology used and technical skills acquired.

Evaluation activities

Title	Weighting	Hours	ECTS	Learning outcomes
Attendance and participation in tutorial sessions and seminars	10%	0	0	3, 6, 7, 9
Lab experimentation report	30%	0	0	1, 2, 3, 4, 7, 9
Supervisor report	60%	0	0	1, 2, 4, 5, 6, 7, 8, 9, 10

Bibliography

Scientific articles and reviews specifically addressing the students research project. The student will be responsible for the search and consultation of the literatura necessary to carry out their work. For this the student may receive the help of his/her supervisor.