

**Master Thesis****2013/2014**

Codi: 42932

Crèdits: 15

Titulació	Tipus	Curs	Semestre
4313802 Genètica avançada/Advanced Genetics	OB	0	2

**Professor de contacte**

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**Utilització d'idiomes**

Llengua vehicular majoritària: anglès (eng)

**Prerequisites**

No special pre-requisites are needed

**Objectius**

To be able to present in an understandable way the research activity carried out. Aspects such as to be able to present the actual state of the art of the topic, the ability to search for adequate bibliography, to discuss the obtained results according to the genetic point of view, to present in an open session the developed activity and to be able to show an adequate knowledge of the topics are the objectives of this module.

**Competències**

Genètica avançada/Advanced Genetics

- Conceive, design, carry out and synthesise scientific projects in the area of genetics, both theoretical and applied.
- Demonstrate responsibility in management of information and knowledge.
- Design and apply scientific methodology in resolving problems.
- Integrate genetic analysis at different levels of complexity (molecular, cell, individual, population) to coherently resolve different problems in the area of genetics.
- Possess and understand knowledge that provides a basis or opportunity for originality in the development and/or application of ideas, often in a research context
- Student should possess an ability to learn that enables them to continue studying in a manner which is largely self-supervised or independent
- Students should be capable of integrating knowledge and facing the complexity of making judgements using information that may be incomplete or limited, including reflections on the social and ethical responsibilities linked to that knowledge and those judgements
- Students should know how to communicate their conclusions, knowledge and final reasoning that they hold in front of specialist and non-specialist audiences clearly and unambiguously
- Use and manage bibliographical information and other resources related to genetics and related fields.
- Use scientific terminology to argue the results of the research and show how to communicate in spoken and written English in an international setting.

**Resultats d'aprenentatge**

1. Analyse, synthesise, organise and plan projects related to genetic and related fields.
2. Apply the bibliographical information collected in data bases to the experimental problem posed within the work

3. Demonstrate responsibility in management of information and knowledge.
4. Design and carry out a research project in the area of genetics
5. Present summaries and conclusions in public
6. Presentation of a written report on an innovative subject area
7. Propose entrepreneurial projects in the area of genetics from an integrated view of the knowledge acquired.
8. Student should possess an ability to learn that enables them to continue studying in a manner which is largely self-supervised or independent
9. Students should be capable of integrating knowledge and facing the complexity of making judgements using information that may be incomplete or limited, including reflections on the social and ethical responsibilities linked to that knowledge and those judgements
10. Take an active part in group meetings
11. Take part in a research project or product development
12. Use scientific terminology to argue the results of the research and show how to communicate in spoken and written English in an international setting.

## Continguts

The different methodologies used in the lab work, together with the references sources and the theoretical background adquired in the theoretical modules will constitute the content of the module.

## Metodologia

Writting, search for bibliography and ability to make and understable history of the research activity carried out will constitute the methodology used

## Activitats formatives

Títol	Hores	ECTS	Resultats d'aprenentatge
Tipus: Supervisades			
Supervision of the task	75	3	1, 2, 3, 4, 6, 7, 9, 11, 12
Tipus: Autònomes			
writing, presentation and defence of the Master Thesis	280	11,2	1, 2, 3, 5, 6, 8, 9, 11, 12

## Avaluació

The presentation and defense, together with the quality of the written document will constitute the information to be evaluated.

The defense will be done in fron of an ad hoc Comissió

## Activitats d'avaluació

Títol	Pes	Hores	ECTS	Resultats d'aprenentatge
Written dissertation, presentation and discusion	100	20	0,8	2, 4, 5, 6, 9, 10, 11, 12

## Bibliografia

The bibliography must be searched by the student and will constitute a component of the vinal evaluation.