

Academic year	2016-17
Subject	11737 - Advanced Experimental Strategy
Group	Group 1, 2S
Teaching guide	A
Language	English

Subject identification

Subject	11737 - Advanced Experimental Strategy
Credits	1.2 de presencials (30 hours) 3.8 de no presencials (95 hours) 5 de totals (125 hours).
Group	Group 1, 2S (Campus Extens)
Teaching period	Second semester
Teaching language	English

Professors

Lecturers	Horari d'atenció als alumnes					
	Starting time	Finishing time	Day	Start date	Finish date	Office
Priam Francesc De Villalonga Smith priam.villalonga@uib.es	12:00	13:00	Monday	12/09/2016	10/07/2017	Q3, Edifici Mateu Orfila
Silvia Elena Fernández De Mattos silvia.fernandez@uib.es	12:00	13:00	Monday	12/09/2016	10/07/2017	Q3. Edifici Mateu Orfila.

Contextualisation

This subject is a compulsory subject within the "Research in Cancer" specialization itinerary of the Master. It is a 5 ECTS subject focusing on the in-depth analysis of experimental strategy in cancer research. This subject will allow and foster the integration of knowledge from the other compulsory subjects within this module: "Molecular basis of carcinogenesis" and "Molecular Oncology". The dynamics of this subject will proceed similarly to a "Journal Club" in which students will present a selected scientific article and engage in a discussion. The lecturer will chair the discussions to ensure participation from all students and will promote the debate. The discussion will emphasize the results section of the selected articles in order to analyze the suitability of the experimental design, the methodology employed and the presentation of the data and its conclusions. The main objective of this subject is, in summary, to gain experience in the accurate analysis of scientific data in the cancer research field and to promote critical thinking.

Requirements

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Essential requirements

A reasonably high level of english language is required (B2), and will be assessed prior enrolling to the Master.

Skills

Specific

- * Ability to properly communicate scientific proposals and research data both at an oral and written level, using an advanced level of scientific language in the context of biomedical research..
- * Ability to interpret and use at an advanced level specialized databases and updated scientific literature in the context of biomedical research..
- * Ability to design experiments and activities aimed at the generation of knowledge in relevant fields within the context of biomedical research..
- * Ability to identify the most suitable techniques to solve specific problems in the context of biomedical research..
- * Ability to apply critical thinking to analyze experimental data, draw conclusions and achieve the best decision-making strategy for the development of biomedical research..
- * Ability to process and analyze the experimental data applying advanced statistical tools to ensure the correct interpretation of the generated data..

Generic

- * Ability to apply critical thinking to research and to value the quality and impact of the results in the context of biomedical research.
- * Ability to manage, analyze and communicate information in the context of biomedical research..
- * Ability to work with scientific integrity and in accordance with ethical principles in the context of biomedical research..

Basic

- * You may consult the basic competencies students will have to achieve by the end of the Master's degree at the following address: http://estudis.uib.cat/master/comp_basiques/

Content

Theme content

1. Presentation and discussion of selected articles

Teaching methodology

In-class work activities

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Modality	Name	Typ. Grp.	Description	Hours
Theory classes	Presentation of the subject	Large group (G)	Presentation of the dynamics of the subject, and distribution of selected scientific articles	1
Seminars and workshops	Presentation and discussion of selected articles	Medium group (M)	The students will present an article in a session chaired by the lecturer and engage in a discussion concerning its experimental strategy.	29
Assessment	Written reports	Large group (G)	The students will produce, after each session, a written report with the conclusions of their analysis and rating of the discussed article.	

At the beginning of the semester a schedule of the subject will be made available to students through the UIBdigital platform. The schedule shall at least include the dates when the continuing assessment tests will be conducted and the hand-in dates for the assignments. In addition, the lecturer shall inform students as to whether the subject work plan will be carried out through the schedule or through another way included in the Campus Extens platform.

Distance education work activities

Modality	Name	Description	Hours
Individual self-study	Preparation of presentations	The students will prepare the presentation of a selected article to the other students.	80
Individual self-study	Preparation of sessions	The students will thoroughly read and analyze in detail each article prior to the session.	15

Specific risks and protective measures

The learning activities of this course do not entail specific health or safety risks for the students and therefore no special protective measures are needed.

Student learning assessment

Presentation and discussion of selected articles

Modality	Seminars and workshops
Technique	Observation techniques (non-retrievable)
Description	The students will present an article in a session chaired by the lecturer and engage in a discussion concerning its experimental strategy.

Assessment criteria

Final grade percentage: 50%



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Written reports

Modality	Assessment
Technique	Papers and projects (non-retrievable)
Description	The students will produce, after each session, a written report with the conclusions of their analysis and rating of the discussed article.
Assessment criteria	
Final grade percentage:	50%

Resources, bibliography and additional documentation

The selected articles object of the sessions will be made available at the beginning of the course each academic term.

