

## Syllabus

### Subject

<b>Subject / Group</b>	10274 - Financial Resources for R+D in Food Sciences / 1
<b>Degree</b>	Master's Degree in Nutrigenomics and Personalized Nutrition
<b>Credits</b>	2
<b>Period</b>	First semester
<b>Language of instruction</b>	English

### Professors

Lecturers	Office hours for students					
	Starting time	Finishing time	Day	Start date	End date	Office / Building
Juana Sánchez Roig <a href="mailto:joana.sanchez@uib.es">joana.sanchez@uib.es</a>	12:00	13:00	Monday	03/09/2018	31/07/2019	Despatx Q14

### Context

#### Professor

Dr. Juana Sánchez Roig, is currently Ramón y Cajal Researcher at the Laboratory of Molecular Biology, Nutrition and Biotechnology, University of the Balearic Islands. For 14 months, during her postdoctoral period, she held a position as a deputy director attached to scientific and technical direction of the Institute Pere Virgili Health Research of Catalonia, which allowed her to acquire experience in the field of research management. She has published more than 60 international articles in prestigious journals such as J Clin Metab Endocrin, Endocrinology, Molecular Nutrition and Food Research, Plos One, Obesity Research, British Journal of Nutrition, Pflügers Archiv European Journal of Physiology, BBA-Molecular Basis of Disease, International Journal of Obesity, the Journal of Nutritional. She participates continuously as a member of the research team on research projects by the Spanish government and the European Union funded and contracts with companies Biochemistry. She is the principal investigator of a research project of the ISCIII

#### Subject

Final Resources for R+D in Food Sciences is a subject that aimed to be aware of and familiar with the main routes to obtain scientific information, be aware of its importance regarding professional improvement, be aware of the available funding sources and patent system, gain skills in writing and presenting both written and oral scientific works.

### Requirements

### Skills

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### Specific

- \* E8 - Know the sources of funding for research, development and innovation in the field of discipline .

### Generic

- \* G10 - Ability to articulate knowledge in oral and written presentations .
- \* G12 - Ability to develop their work in English (language internationally recognized scientific discipline) .
- \* G3 - Ability to work independently with initiative and solve problems effectively .
- \* G6 - Ability to work inter-disciplinary .
- \* G8 - Ability to assess and participate in teamwork .
- \* CB10 - Students should possess the learning skills to allow them to continue studying in a way that will have to be largely self-directed or autonomous. .
- \* G9 - Ability to collect, organize and critically analyze the research literature and professional discipline .
- \* G7 - Respect for ethics and intellectual integrity .
- \* G4 - Ability to formulate hypotheses and design studies for verification .

### 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/](http://estudis.uib.cat/master/comp_basiques/)

## Content

### Range of topics

#### Section 1. Disseminating the results of research.

Session 1. Bibliographical sources and online databases.1

Session 2. Oral and written presentation of research work

- \* Scientific articles.Structuring, writing and elaborating scientific articles.
- \* Scientific journals.Specific instructions, field of journal. Where to publish a specific article?
- \* Managing bibliography: examples of applications for management of bibliography.

Session 3. Introduction to main quality markers in scientific works

- \* Impact index. Citations gained. Quartiles. Other quality indicators.
- \* Applications of ISI Web of Knowledge.

#### Section 2. Transferring the results of research.

Session 4. Patents

- \* Introduction. Legislation. Characteristics and structure of patents. Tools to search for patents.

Session 5. Spin off

- \* What are spin-off businesses?

#### Section 3. Funding R&D in the food sector

Session 6. Funding research in the food sector

- \* Introduction to public and private funding of research in the food sector. Public entities funding R&D.

Session 7. Research projects and research grants

- \* Introduction to reseach projects.Elaborating an R&D project. Examples of specific calls.

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\* Introduction to reseach career. Predoctoral grants. Postdoctoral contract

### Teaching methodology

In-class work activities (0.3 credits, 7.5 hours)

Modality	Name	Typ. Grp.	Description	Hours
Theory classes	Theory	Large group (G)	<ul style="list-style-type: none"> <li>* Classes</li> <li>* PowerPoint presentations in lectures</li> <li>* Use of Moodle environment to transmit content and material and as an interactive communication tool.</li> <li>* Bibliographic material (books, scientific articles, databases, etc.).</li> </ul>	2
Practical classes	Practical sessions	Large group (G)	<ul style="list-style-type: none"> <li>* Practical sessions using PubMed, searching protocols, searching for publishing guidelines in various journals, introduction to management of bibliography, introduction to ISI Web of Knowledge and consultation of websites of main public bodies funding R&amp;D. Introduction to the elaboration of an R&amp;D Project</li> </ul>	5.5

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 Aula Digital platform.

Distance education tasks (1.7 credits, 42.5 hours)

Modality	Name	Description	Hours
Individual self-study	Exercises	* Solving exercises and critical comments on scientific material handed over by the lecturer.	17
Group self-study	Participation in forums about video-projects	* Visualization and participation in forums about the video-projects made by other classmates	5.5
Group self-study	Preparing video-projects	* Preparing and presenting a video-presentation in english about a bibliographic research work on an R+D+I topic chosen by students themselves or suggested by the lecturer.	20

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### 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

Two pathways (A and B) are proposed. Pathway A is for continuous evaluation and requires the attendance of the student to the classroom activities. The pathway B is for those students who have incompatibility to attend the classroom activities. The final mark of the subject will be the sum of the marks obtained in the assessment activities.

#### Pathway A:

- 1.- Resolution of proposed tasks (problem solving or cases). 40% of the final grade.
- 2.- Work or Projects (written and / or oral presentation).
  - 2.1. Preparation of a video-presentation (40% of the final grade).
  - 2.2 Visualization and participation in the debate of the video-presentation made by other classmates. (20% of the final grade).

#### Itinerary B:

- 1.- Resolution of proposed tasks (problem solving or cases). 40% of the final grade.
- 2.- Work or Projects (written and / or oral presentation).
  - 2.1. Preparation of a video-presentation (40% of the final grade).
  - 2.2 Visualization and participation in forums about the video-presentation made by other classmates. (20% of the final grade).

### Frau en elements d'avaluació

In accordance with article 33 of Academic regulations, "regardless of the disciplinary procedure that may be followed against the offending student, the demonstrably fraudulent performance of any of the evaluation elements included in the teaching guides of the subjects will lead, at the discretion of the teacher, a undervaluation in the qualification that may involve the qualification of "suspense 0" in the annual evaluation of the subject".

### Exercises

Modality	Individual self-study
Technique	Papers and projects ( <b>retrievable</b> )
Description	*Solving exercises and critical comments on scientific material handed over by the lecturer.
Assessment criteria	<b>Pathway A and B</b>  * The exercises proposed will be assessed. * It will be valued that the student delivers the proposed problems or exercises on time and the correction of these exercises

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- \* The work must be delivered / completed on the date and at the time established by the lecturer. The different tasks have to be uploaded in the space that will be available in the intranet of the subject. Other ways for delivery of the work will not be considered
- \* Those task not delivered on time will not be considered for evaluation.

**Retrieve.**The student will be offered a re-take, to be held in the extraordinary assessment period set up on the Master's official calendar for this purpose.

Final grade percentage: 40% for pathway A

Final grade percentage: 40% for pathway B

### Participation in forums about video-projects

Modality	Group self-study
Technique	Papers and projects ( <b>retrievable</b> )
Description	*Visualization and participation in forums about the video-projects made by other classmates
Assessment criteria	Pathway A

\* All the video-presentation will be comment in class. Students can interact to solve doubts or ask questions and / or comments.

\* At the end of the activity, a task will be available in the intranet of the subject in which each student will have to value his / her own classmates - intra-group evaluation - (it will be considered for the final grade). In addition, a representative of each group, and in a consensual way with his/her colleagues, will value the exposures of the rest of groups - inter-group assessment - (it will be considered for the final grade).

\* Work delivered after the deadline will not be considered / qualified.

**Retrieve.** The student will be offered a re-take, to be held in the extraordinary assessment period set up on the UIB's official calendar for this purpose. The student must complete an online questionnaire on the contents of the video presentations prepared by their classmates. Deadline will be established.

#### Pathway B

\* Students will have two weeks for the visualization the all the video-presentations of their classmates.

\* Student must complete an online questionnaire on the contents of the video-presentations prepared by their classmates (within the two week after the publication of the video-presentations)

\* At the end of the activity, a task will be available in the intranet of the subject in which each student will have to value his / her own classmates - intra-group evaluation - (it will be considered for the final grade). In addition, a representative of each group, and in a consensual way with his/her colleagues, will value the exposures of the rest of groups - inter-group assessment - (it will be considered for the final grade).

\* Work delivered after the deadline will not be considered / qualified.

**Retrieve.**The student will be offered a re-take, to be held in the extraordinary assessment period set up on the UIB's official calendar for this purpose. The student must complete an online questionnaire on the contents of the video presentations prepared by their classmates. Deadline will be established.

Final grade percentage: 20% for pathway A

Final grade percentage: 20% for pathway B

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### Preparing video-projects

Modality	Group self-study
Technique	Papers and projects ( <b>retrievable</b> )
Description	*Preparing and presenting a video-presentation in english about a bibliographic research work on an R+D+I topic chosen by students themselves or suggested by the lecturer.
Assessment criteria	<b>Pathway A</b> <ul style="list-style-type: none"><li>* Students will be enrolled in group of 4-5 students. They have to select one of the topics proposed by the teacher, or a specific topic related to the contents of the subject.</li><li>* The different groups will coordinate through the forum to select the topic and not repeat it.</li><li>* Each group should create a video-presentation in English with a maximum duration of 15 minutes. The student can use different free online tools, such as Screencast-O-Matic or Movenote.</li><li>* The video-presentation will be uploaded in the space that will be available in the intranet of the subject.</li><li>* Work delivered after the deadline will not be considered.</li></ul> <b>Retrieve.</b> The student will be offered a re-take, to be held in the extraordinary assessment period set up on the UIB's official calendar for this purpose. The student must make a video-presentation of a topic related to the subject. <b>Pathway B</b> <ul style="list-style-type: none"><li>* The student will select one of the topics proposed by the teacher, or a specific topic related to the contents of the subject. The student will coordinate with other classmates the selection of this topic through the forum of the subject to not to repeat the topic with his/her classmates.</li><li>* The student has to create a video-presentation in English and with a maximum duration of 15 minutes. The student can use different free online tools, such as Screencast-O-Matic or Movenote.</li><li>* The video-presentation will be uploaded in the space that will be available in the intranet of the subject.</li><li>* Work delivered after the deadline will not be considered.</li></ul> <b>Retrieve.</b> The student will be offered a re-take, to be held in the extraordinary assessment period set up on the UIB's official calendar for this purpose. The student must make a video-presentation of a topic related to the subject.

Final grade percentage: 40% for pathway A

Final grade percentage: 40% for pathway B

### Resources, bibliography and additional documentation

Students will be given an up-to-date bibliography of articles and revisions published in quality international journals at the start of the course.

#### Basic bibliography

Useful web pages

Web del ministerio economía y competitividad, sección i+d+i: <http://www.mineco.gob.es/portal/site/mineco/idi>

Web del ministerio educación: <http://www.educacion.es>

Web del Instituto de Salud Carlos III: <http://www.isciii.es>





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Web de la Oficina Española de Patentes y Marcas: <http://www.oepm.es>  
Pudmed: <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi>  
Isi web of knowledge: <http://apps.isiknowledge.com>  
Scopus: <http://www.scopus.com/home.url>

### Complementary bibliography

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Useful documents:

Plan Nacional de Investigación Científica y Desarrollo e Innovación Tecnológica 2008-20011

