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| Academic year | 2016-17 |
| Subject | 10274 - Financial Resources for R+D in Food Sciences |
| Group | Group 1, 1S |
| Teaching guide | A |
| Language | English |

Subject identification

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| Subject | 10274 - Financial Resources for R+D in Food Sciences |
| Credits | 0.3 de presencials (7.5 hours) 1.7 de no presencials (42.5 hours) 2 de totals (50 hours). |
| Group | Group 1, 1S (Campus Extens) |
| Teaching period | First semester |
| Teaching language | Spanish |

Professors

| Lecturers | Horari d'atenció als alumnes | | | | | |
|--|------------------------------|----------------|--------|------------|-------------|--------|
| | Starting time | Finishing time | Day | Start date | Finish date | Office |
| Juana Sánchez Roig joana.sanchez@uib.es | 12:00 | 13:00 | Monday | 28/06/2016 | 30/09/2017 | Q14 |

Contextualisation

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 50 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.

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



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Skills

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/

Content

Theme content

Section 1. Disseminating the results of research.

Session 1. Bibliographical sources and online databases.1

1.1. Literature searches. Introduction to PubMed.

Session 2. Oral and written presentation of research work

2.1. Scientific articles. Structuring, writing and elaborating scientific articles.

2.2.- Scientific journals. Specific instructions, field of journal. Where to publish a specific article?

2.3.-Managing bibliography: examples of applications for management of bibliography.

2.4. Papers at specialist conferences. Sending abstracts, writing and presenting panel papers.

Session 3. Introduction to main quality markers in scientific works

3.1.- Impact index. Citations gained. Quartiles. Other quality indicators.

3.2.- Applications of ISI Web of Knowledge.

3.3.- Applications of Scopus

Section 2. Transferring the results of research.

Session 4. Patents



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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
6.1. Introduction to public and private funding of research in the food sector. Public entities funding R&D.
6.2. National R&D plan.
6.3. EU programmes. FP7.

Session 7. Research projects and research grants
7.1.- Introduction to reseach projects.Elaborating an R&D project. Examples of specific calls.
7.2.- Introduction to reseach career. Predoctoral grants. Postdoctoral contract

Teaching methodology

In-class work activities

| Modality | Name | Typ. Grp. | Description | Hours |
|------------------------|--------------------|------------------|--|-------|
| Theory classes | Lectures | Large group (G) | Classes PowerPoint presentations in lectures Use of Moodle environment to transmit content and material and as an interactive communication tool. Bibliographic material (books, scientific articles, databases, etc.). | 2 |
| Seminars and workshops | Seminars | Medium group (M) | Colloquia commenting on scientific articles, patents, calls for projects. Seminars for student presentation and discussion | 2 |
| Practical classes | Practical sessions | Large group (G) | Practical sessions using PubMed, searching protocols and reactivities, 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&D. | 3.5 |

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 Campus Extens platform.

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Distance education work activities

| 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 | Preparing presentation | Preparing and presenting bibliographic research in a seminar session on an R+D+I topic chosen by students themselves or suggested by the lecturer. | 25.5 |

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 are proposed (A or B). Pathway A is the continuous assessment and requires the assistance of student classroom activities; the itinerary B, for students who have attend incompatibility to classroom activities. The final mark of the course will be the sum of scores

Pathway A:

1 - Evidence of actual or simulated execution of tasks (problem solving or case). 40% of the final grade. The exercises in items 1, 2 and 3 will be assessed. The criteria for the assessment is. the student submit problems or proposed and that these exercises are performed correctly.

2 - Job or Project (written and / or oral presentation). 60% of the final grade. Students will prepare a A seminar in group on the thematic content of the block II and III. Groups will exposed their work.

The following will be assessed:

- The presentation outlined clearly and correctly structured.
- Adequate and up to date references are presented.
- The contents of the issue are appropriate, coming from current and reliable sources of information have proven information from different sources.

Route B:

1 - Evidence of actual or simulated execution of tasks (problem solving or case). 40% of the final grade corresponds to the note of the exercises in items 1, 2 and 3. Was assessed that the student submit problems or proposed and that these exercises are performed correctly.

. 2 - Job or Project (written and / or oral presentation). 60% of the final grade. Delivery of individual work with the results of a literature search on a topic of sources of funding for R + D + i food (50% of grade) and resolution questionnaires questions related to other topics of the presentations made by other students, so that failure to attend the presentations will be replaced with an autonomous working to resolve these questions (50% of grade). Regarding the bibliographic work will be valued the contents of the issue are appropriate, from current and reliable sources of information; has been proven information from different sources and that appropriate and up to date references occur. With regard to the questionnaire on the seminars of other students, be appreciated that the questions are answered correctly.

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Seminars

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| Modality | Seminars and workshops |
| Technique | Papers and projects (non-retrievable) |
| Description | Colloquia commenting on scientific articles, patents, calls for projects. Seminars for student presentation and discussion |
| Assessment criteria | |
| Final grade percentage: | 0% |

Practical sessions

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|-------------------------|---|
| Modality | Practical classes |
| Technique | Papers and projects (non-retrievable) |
| Description | Practical sessions using PubMed, searching protocols and reactives, 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&D. |
| Assessment criteria | |
| Final grade percentage: | 0% |

Exercises

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|-------------------------|---|
| Modality | Individual self-study |
| Technique | Objective tests (non-retrievable) |
| Description | Solving exercises and critical comments on scientific material handed over by the lecturer. |
| Assessment criteria | |
| Final grade percentage: | 40% |

Preparing presentation

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| Modality | Group self-study |
| Technique | Papers and projects (non-retrievable) |
| Description | Preparing and presenting bibliographic research in a seminar session on an R+D+I topic chosen by students themselves or suggested by the lecturer. |
| Assessment criteria | |
| Final grade percentage: | 60% |

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>

Web de la Oficina Española de Patentes y Marcas: <http://www.oepm.es>





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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

Useful documents:

Plan Nacional de Investigación Científica y Desarrollo e Innovación Tecnológica 2008-2011

