

Research Practices

Code: 42156
ECTS Credits: 15

Degree	Type	Year	Semester
4312326 Applied Clinical Research in Health Sciences	OB	0	2

Contact

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Use of Languages

Principal working language: spanish (spa)

External teachers

Miquel Sabrià Leal i Directors del Treball de Recerca

Prerequisites

To access this module, students must be done the introductory module of "Basic Methodology in Clinical Research" and have a tutor / director (in all cases a doctor) integrated in a recognized research group.

The module will also accept the enrolment of students who require only 30 ECTS of research to complete their academic profile prior to accessing doctoral studies (in these cases the requirement of being in the introductory module of " Basic Methodology in Clinical Research " will not be required.

However, a level of knowledge of technical English is required that allows reading and understanding of texts in English.

Objectives and Contextualisation

The fundamental objective is to introduce the student in a specific line of research, where through dynamic learning (in action) he will develop his research project and his research work.

The student chooses the research line (among all the open lines in this master's degree) based on the specialty in health sciences he is developing), personal interest or prestige of the research group. In any case, the final objective is to complete this master's degree with a practical immersion within the world of research, together with prestigious researchers and consolidated research lines.

The learning will be developed under the tutelage of a project / research director, who will sign the viability of the project, learning progress and work availability.

Competences

- Act respecting the Independent Ethics and legal aspects of the research and of the professional activities.
- Communicate and apply knowledge to the public and cultural debate.
- Covering demonstrate the importance and limitations of scientific and translational research in health sciences.

- Critically evaluate, identify and classify the sources of scientific information according to the type of evidence and the scientific relevance.
- Development of habilidades autoaprendizaje y su formación Motivación to continue to postgraduate level.
- Development scientific knowledge, creativity and Critical Thinking.
- Formulating problems, hypotheses and research objetivos.
- Identify and comprender the continuous advance and looking retos
- Prove that the methodologies covering estadísticas básicas utilizadas in the biomedical and clinical estudios y análisis use the tools of the modern computational technology.
- Recognize and explain the ethical, regulatory and financial context in which biomedical research must be conducted
- Working as part of a group along with other professionals, understand their views and cooperate constructively.

Learning Outcomes

1. Act respecting the ethical and legal aspects of research and professional activities.
2. Collect scientific information and classify it according to levels of evidence and scientific relevance.
3. Communicate and apply knowledge to the public and cultural debate.
4. Describe the ethical basis to govern research in health sciences.
5. Describe the existence and usefulness of informed consent.
6. Describe the importance of the group as a means of research and methodological and budgetary constraints of any investigation.
7. Describe the main sources of funding for research in health sciences.
8. Develop scientific knowledge, critical thinking and creativity.
9. Develop self-learning skills and motivation to continue their education at the graduate level.
10. Fluently use medical information databases such as MEDLINE, PUBMED, or ISI WEB KNOWLEDGE.
11. Formulate working hypotheses, research objectives and plan a research project in health sciences.
12. Identify and understand the ongoing progress and challenges in search
13. Identify the needs of translational research in the field of health sciences where research practices are developed.
14. Manage software packages: enter data into the corresponding bases and analyzed with scientific / statistical methods appropriate.
15. Working as part of a group along with other professionals, understand their views and cooperate constructively.

Content

It is an eminently practical learning module and prior to the development of the final master's project. In this module the student is definitively incorporated into a specific line of research led by a researcher from the Faculty of Medicine. The development of this module will be done in one of the teaching units, within a department and using the resources of the Faculty and the department. As basic contents of the module:

1. Research and critical analysis of information related to your field of study
2. Development and application of all phases of the scientific method
3. Incorporation of your proposal into a national competitive project format

Methodology

Design and develop a research project in a specific line of a Department of the Faculty of Medicine of the UAB or other under the supervision of the director of the chosen research line.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Supervised			
Learning in action: design and develop a research project in a specific line of a Department of the UAB School of Medicine or other under the supervision of the director of the research line chosen.	300	12	1, 3, 6, 4, 7, 5, 8, 9, 11, 12, 13, 14, 2, 15, 10
Type: Autonomous			
Individual study	73	2.92	1, 3, 4, 7, 5, 8, 9, 12, 14, 15

Assessment

The evaluation of the Research Practices will be done jointly with the evaluation of the Master's Thesis, with special emphasis on sections 1 and 2 of the evaluation. Based on the follow-up reports and presentation of the research paper both notes may have different qualifications.

The evaluation is continued throughout the course and is reflected by the periodic reports issued by the directors of the work (follow-up reports) and by the written presentation of the research work (see module Master's Final Project).

During the presentation and, especially, the defence of the research work will be assessed those aspects related to practical learning throughout the course and student involvement in the project methodology.

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Evaluation of learning work by the tutor / director of work	50%	1	0.04	1, 3, 6, 4, 7, 5, 8, 9, 11, 12, 13, 14, 2, 15, 10
Evaluation of written work (presentation and content) by the tutor / director	50%	1	0.04	1, 3, 6, 4, 7, 5, 8, 9, 11, 12, 13, 14, 2, 15, 10

Bibliography

Bunge M. 2004. La investigación científica. 3ª ed. Siglo XXI editores.

Eyssautier De La Mora M. 2006. Metodología de la investigación: desarrollo de la inteligencia. 5ª ed. Thomson Editores.

Icart Isern MT, Pulpón Segura AM. 2012. Cómo elaborar y presentar un proyecto de investigación, una tesina y una tesis. Editorial Barcelona: Publicacions i Edicions de la Universitat de Barcelona.

Medawar PB. 2011. Título: Consejos a un joven científico. Editorial Barcelona: Publicacions i Edicions de la Universitat de Barcelona.

Münch L, Ángeles E. 2011. Métodos y técnicas de investigación. 4ª ed. Trillas editores.

Namakforoosh MN. 2005. Metodología de la investigación. 2ª ed. Limusa editores.

Tamayo M. 2004. El proceso de la investigación científica: incluye evaluación y administración de proyectos de investigación. 4ª ed. Limusa editores.

Enllaç a la Normativa del Treball de Recerca

http://icacs.uab.cat/Castellano/index.php#!/Normativa_258_1/