

**COURSE DATA****Data Subject**

Code	43083
Name	Special techniques in cardiovascular research
Cycle	Master's degree
ECTS Credits	3.0
Academic year	2019 - 2020

Study (s)

Degree	Center	Acad. year	Period
2141 - M.U. en Fisiología 12-V.2	Faculty of Medicine and Odontology	1	First term

Subject-matter

Degree	Subject-matter	Character
2141 - M.U. en Fisiología 12-V.2	2 - Cardiovascular physiology	Obligatory

Coordination

Name	Department
HERMENEGILDO CAUDEVILLA, CARLOS	190 - Physiology

SUMMARY**English version is not available**

En esta asignatura de Máster se estudiarán las principales técnicas disponibles para abordar la investigación en fisiología cardiovascular, desde modelos celulares, pasando por modelos animales, hasta la investigación en humanos.

PREVIOUS KNOWLEDGE**Relationship to other subjects of the same degree**

There are no specified enrollment restrictions with other subjects of the curriculum.



Other requirements

No hay requisitos previos para cursar la asignatura

OUTCOMES

2141 - M.U. en Fisiología 12-V.2

- Students should apply acquired knowledge to solve problems in unfamiliar contexts within their field of study, including multidisciplinary scenarios.
- Students should be able to integrate knowledge and address the complexity of making informed judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities associated with the application of their knowledge and judgments.
- Students should communicate conclusions and underlying knowledge clearly and unambiguously to both specialized and non-specialized audiences.
- Students should demonstrate self-directed learning skills for continued academic growth.
- Students should possess and understand foundational knowledge that enables original thinking and research in the field.
- Know how to write and prepare presentations to present and defend them later.
- To acquire a critical attitude that allows you to make reasoned judgments and defend them with rigor and tolerance.
- Search, order, analyze and synthesize scientific information (databases, scientific articles, bibliographic repertoires), selecting the pertinent to focus current knowledge on a topic of scientific interest in Physiology.
- Assess the need to complete the scientific training, in languages, computer science, ethics, etc., attending conferences or courses and/or carrying out complementary activities, self-evaluating the contribution that the performance of these activities implies for their comprehensive training.
- To acquire specific skills to develop laboratory work in cardiovascular research.

LEARNING OUTCOMES

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**WORKLOAD**

ACTIVITY	Hours	% To be attended
Laboratory practices	12,00	100
Theory classes	6,00	100
Tutorials	2,00	100
Other activities	2,00	100
Development of individual work	12,00	0
Study and independent work	10,00	0
Readings supplementary material	5,00	0
Preparation of evaluation activities	11,00	0
Preparing lectures	3,00	0
Preparation of practical classes and problem	2,00	0
Resolution of case studies	10,00	0
TOTAL	75,00	

TEACHING METHODOLOGY**English version is not available****EVALUATION****Evaluation system:**

- Presentation of the scientific work carried out: assessment of 10 points.

Attendance at 80% of the practices is compulsory.

Minimum passing grade: 5 points.

REFERENCES**Basic**

- DHEIN S, MOHR FW, DELMAR M (eds). Practical methods in cardiovascular research. Springer, Heidelberg. 2005.



- GUYTON AC, HALL JE. Tratado de Fisiología Médica. 12ª ed. Madrid. Ed. McGraw-Hill. 2011.
- POSTERKAMP G, KLEIJN D (eds). Cardiovascular Research: New technologies, methods and applications. Springer, New York. 2006.

Additional

- AIRD WC (ed). Endothelial cells in health and disease. Taylor & Francis group, Boca Ratón. 2005.
- AIRD WC (ed). Endothelial biomedicine. Cambridge University Press, Cambridge. 2007.
- DE CATTERINA R, LIBBY P (eds). Endothelial dysfunctions and vascular disease Blackwell Publishing, Oxford. 2007.

ADDENDUM COVID-19

This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council

English version is not available