

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

Code	43013
Name	Basic methodological principles of biomedical research
Cycle	Master's degree
ECTS Credits	15.0
Academic year	2021 - 2022

Study (s)

Degree	Center	Acad. year	Period
2137 - Master's Degree in Biomedical Research	Faculty of Medicine and Odontology	1	First term

Subject-matter

Degree	Subject-matter	Character
2137 - Master's Degree in Biomedical Research	1 - Methodology of biomedical research	Obligatory

Coordination

Name	Department
GONZALEZ TERUEL, AURORA M.	225 - History of Science and Documentation
ORTEGA AZORIN, CAROLINA	265 - Prev. Medicine, Public Health, Food Sc.,Toxic. and For. Med.
VERDÚ PASCUAL, FERNANDO ALEJO	265 - Prev. Medicine, Public Health, Food Sc.,Toxic. and For. Med.

SUMMARY

ddd

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 se requieren.

COMPETENCES (RD 1393/2007) // LEARNING OUTCOMES (RD 822/2021)

2137 - Master's Degree in Biomedical Research

- To know the methodological basis of the biomedical research.
- To know the instruments of the biomedical research.
- To manage biomedical information and be able to communicate the results of the research.
- To know the regulatory framework in which the biomedical research is held and the ethical aspects involved.
- To have the ability of obtaining data derived from the biomedical research, analysed it and interpreted it correctly.
- 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.
- To know how to make a suitable bibliographical and documentary search in order to know the state of the art of the issue.

LEARNING OUTCOMES (RD 1393/2007) // NO CONTENT (RD 822/2021)

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WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	90,00	100
Other activities	6,00	100
Attendance at events and external activities	11,00	0
Study and independent work	56,00	0
Preparation of evaluation activities	40,50	0
Preparing lectures	87,50	0
Preparation of practical classes and problem	71,00	0
TOTAL	362,00	

TEACHING METHODOLOGY

English version is not available

EVALUATION

English version is not available

REFERENCES

Basic

- BLOQUE 1

Abadal, Ernest. Acceso abierto a la ciencia. Editorial UOC, 2013. <https://core.ac.uk/download/pdf/11889005.pdf>

Benos DJ, Fabres J, Farmer J, Gutierrez JP, Hennessy K, Kosek D, et al. Ethics and scientific publication. *Adv Physiol Educ.* 2005;5974.

Cargill, M., & OConnor, P. (2013). *Writing scientific research articles* (2nd ed). Oxford: Wiley-Blackwell. (e-book BibliotecUV)

Day, R. A. y Gastel, B. (2008). *Cómo escribir y publicar trabajos científicos* (4ª ed). Washington: Pan American Health Organization. (Biblioteca UV) (Octava edición en inglés)

Gastel, Barbara, and Robert A. Day. *How to write and publish a scientific paper*. ABC-CLIO, 2016.

Grant, Maria J., and Andrew Booth. "A typology of reviews: an analysis of 14 review types and associated methodologies." *Health Information & Libraries Journal* 26.2 (2009): 91-108.

Goris, Guirao, and Silamani J. Adolf. "Utilidad y tipos de revisión de literatura." *Ene* 9.2 (2015): 0-0. <http://dx.doi.org/10.4321/S1988-348X2015000200002>

ICJME. *Recommendations for the Conduct, Reporting, Editing, and Publication of Scholarly work in Medical Journals*. <http://www.icmje.org/icmje-recommendations.pdf>

Hengl, Tomislav, and Michael Gould. "Rules of thumb for writing research articles." Enschede,



September (2002).

Mabrouki, K. y Bosch, F. (Eds.). (2007). *Publicación científica en biomedicina: lo que hay que saber*. Barcelona: Fundación Antonio Esteve. (Biblioteca UV)

- Bibliografía electrónica:

TUTORIAL PUBMED NIH. https://www.nlm.nih.gov/bsd/disted/pubmedtutorial/020_110.htm

GUÍA DE USO DE PUBMED elaborada por Carlos Gonzalez Guitian y Maria Sobrido Prieto de la Biblioteca Virtual de Galicia (bibliosau de)
<http://bibliosau de.sergas.es/DXerais/438/gu%C3%ADa%20de%20uso%20medline%20-%202002.pdf>

TUTORIALES ELABORADOS POR LA DIVISIÓN DE INFORMACION MEDICA LILLY.
https://www.youtube.com/watch?v=vrSrYAGjxEE&index=2&list=PL_rE5DineAVGAmRGdLdrS-ZvNziz2yPTB

Tutorial UsoMesh para la búsqueda en PubMed. Autor. Juan Quintanilla Cerezal.
<https://www.youtube.com/watch?v=2FDjQ6vuARg>

MANUALES COMPLETOS DEL USO DE WOS Y SCOPUS.
<https://www.recurso scientificos.fecyt.es/servicios/formacion/material>.

LLUIS CODINA, 2017. *Cómo utilizar Scopus y Web of Science o ¿porqué cuesta tanto usar bien estas bases de datos?* <https://www.lluiscodina.com/scopus-web-of-science-tutoriales/>

MEDES. VIDEOS DIDACTICOS Y GUIAS DE USO.
<https://medes.com/Public/Videotutoriales/index.html>

- BLOQUE 2:

-De Irala J, Martinez-Gonzalez MA, Seguí-Gomez M. *Epidemiología aplicada*. Barcelona: Ariel, 2004.

-Hernández-Avila M. *Epidemiología. Diseño y análisis de estudios*. Buenos Aires: Panamericana, 2007.

-Rothman KJ. *Epidemiology. An introduction*. Oxford: Oxford University Press, 2002.

-Ahlbom A, Novell S. *Fundamentos de epidemiología (tercera edición corregida)*. Colección salud y sociedad. Madrid : Siglo XXI, 1992.- Argimón JM, Jiménez J, Ed. *Métodos de investigación clínica y epidemiológica*. Barcelona. Harcourt 2004.

-Hernández-Aguado I, Gil de Miguel A, Delgado-Rodríguez M, Bolumar-Montrull F. *Manual de epidemiología y salud pública para licenciaturas y diplomaturas en ciencias de la salud*. 2.ed.Madrid: Medica Panamericana, 2011

-Gordis L. *Epidemiología*. 3ed. Elsevier.2005.

- BLOQUE 3:

-Código Internacional de Ética Médica. <http://www.wma.net/s/policy/c8.htm>

-Declaración de Tokio. <http://www.wma.net/s/policy/c18.htm>

-Manual de Ética Médica de la Asociación Médica Mundial.
<http://www.wma.net/s/ethicsunit/resources.htm>

-Declaración de Helsinki. <http://www.wma.net/s/policy/b3.htm>

-Convenio de Oviedo. www.eutanasia.ws/leyes/Oviedo1997.pdf

-Ley de Investigación Biomédica. www.boe.es/boe/dias/2007/07/04/pdfs/A28826-28848.pdf

-Ley sobre el uso racional de medicamentos y productos sanitarios.
www.boe.es/boe/dias/2006/07/27/pdfs/A28122-28165.pdf



ADDENDUM COVID-19

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

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SÓLO EN EL CASO DE NO SER POSIBLE LA DOCENCIA PRESENCIAL

1. Contenidos

Se mantienen los contenidos recogidos en la guía docente.

2. Volumen de trabajo y planificación temporal de la docencia

Se mantiene el peso de las distintas actividades que suman las horas de dedicación en créditos ECTS marcadas en la guía docente.

Se mantiene las fechas y horas de docencia programadas.

3. Metodología docente

Tanto los temas teóricos, como los prácticos y las tutorías se llevarán a cabo de forma virtual.

4. Evaluación

Se mantiene el sistema de evaluación de la guía docente, pero con la realización del examen online en el día y hora previstos en el calendario de exámenes aprobado en la titulación.

5. Bibliografía

Se mantiene la bibliografía recomendada en la guía docente.