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# Human Diseases Models Morphological Phenotyping





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# What is an Erasmus Mundus Joint Master?

Prestigious international masters, jointly designed and delivered by a group of higher education institutions. They involve at least **3 institutions** from at least **3 different countries**, and multiple associated partners from the academic and non-academic world.

Typically, they include periods of **study**, **research**, **traineeship**, **thesis preparation** and **defence**.

## Masters duration

1 to 2 academic years (60, 90 or 120 ECTS credits).

## Type of degree awarded

You will gain either

- a **joint degree** (i.e. one single degree certificate issued on behalf of at least two higher education institutions)
- **multiple degrees** (i.e. at least two degree certificates issued by two higher education institutions of the consortium)

Depending on the Erasmus Mundus Joint Master – informed at the beginning of your studies.





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**MorphoPHEN** is a one-year **Erasmus Mundus Joint Master** (60 ECTS), divided in two semesters of 30 ECTS each. It brings knowledge on the four main branches necessary to analyze mouse disease models morphologically:  
Anatomy and Embryology, Pathology, Imaging, and Deep Learning.

The **key role of the laboratory mouse as an animal model** to develop new treatments against human diseases is well established, however its importance has been dramatically increased due to the COVID-19 pandemic. Large-scale experiments in “humanised” mice have been carried out to identify novel disease mechanisms and therapeutic targets. Furthermore, the efficiency of COVID-19 vaccines, the best option to beat the pandemic, were first tested in mice.

Despite this preeminent position of the mouse, the European and global scientific community currently **lacks sufficient human resources and expertise in mouse phenotyping** to effectively characterize and validate these animal models. In this scenario, no single European university has all the expertise, resources and personnel required to design and establish a strong educational program in mouse morphological phenotyping. For this reason, the **MorphoPHEN partner universities** have combined their expertise and resources to produce an educational program that can meet this need.

**UAB**  
Universitat Autònoma  
de Barcelona



UNIVERSITÀ DEGLI STUDI DI NAPOLI  
**FEDERICO II**



**ARISTOTLE  
UNIVERSITY  
OF THESSALONIKI**





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# MorphoPHEN educational programme

**MOUSE  
ANATOMY &  
PATHOLOGY**

10 ECTS

**MOUSE  
IMAGING**

20 ECTS

**DEEP  
LEARNING &  
EXPERIMENTAL  
DESIGN**

20 ECTS

**MASTER'S  
THESIS**

10 ECTS

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SEMESTER I

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SEMESTER II

<https://morphophen.eu>





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# Erasmus Mundus Scholarships

Admitted students will be awarded an **Erasmus Mundus scholarship**.

The scholarship is strictly linked to the full-time participation in the MorphoPHEN master for a period of 12 months.

Additionally, the awardee will be covered by the foreign **student insurance policy** of Universitat Autònoma de Barcelona for a duration of 14 months, included in the scholarship granted by the Erasmus Mundus program. The insurance policy covers medical expenses and private liability. In accordance with the conditions of the Erasmus Mundus program of the European Commission, the scholarship will be managed by the MorphoPHEN Secretariat and includes two concepts:

- **Enrollment** in the master's program and **medical insurance**, both paid by the MorphoPHEN Secretariat (EUR 10.200,00).
- **Living allowance** of up to EUR **16.800,00**, transferred to the recipient monthly in 12 payments.

## Self-funded Students





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<https://morphophen.eu/#what-is>



**APPLY HERE**

Admissions open on December 11th, 2025

