



## PhD program in Morphogenesis and Tissue engineering

2022 Call

**Deadline for applications: August 25th, 2022**

The PhD program in Morphogenesis and Tissue engineering is aimed at creating an exciting learning and research experience dedicated to outstanding and motivated young graduate students. The ambition of the PhD program is to prepare students for careers in academia, in research institutes, and in expanding areas of biotechnology. The course strives to produce PhD graduates with substantial analytical, critical and evaluation skills necessary for the execution of successful research.

Admission to the doctoral programme is on competitive basis without limits of citizenship. Selection of candidates is based on academic records, and an oral presentation of undergraduate activities (including a discussion to test the applicant's basic scientific knowledge).

Interviews are held in Italian or in English, according to the applicant's requests. It is mandatory to carry out part of the interview in English.

Successful candidates will have the opportunity to develop ambitious research projects in the following area of research:

- Regulation of gene expression and cell differentiation
- Tissue engineering
- Molecular mechanisms of tissue remodeling, homeostasis, and regeneration
- Mechanisms controlling cell cycle and death
- Cell interactions and morphogenesis, mechanisms of development
- Tissue homeostasis and malignant transformation
- Mathematical modeling, multivariate statistics, and biophysical chemistry
- Human biology, molecular genetics, and brain metabolism
- Dynamical simulations and modeling of biosystems at different dimensional scale.

Details about the PhD program at: <https://phd.uniroma1.it/web/concorso38.aspx?i=3525>

Sapienza PhD official page: <http://www.uniroma1.it/didattica/offerta-formativa/dottorati>