

9th CNB INTRODUCTION TO RESEARCH COURSE

The National Centre for Biotechnology (CNB-CSIC) is organising the **9th Introduction to Research Course** for students starting a master degree in 2023-2024 or in the final years of a university science or engineering degree. This program aims to connect students with CNB scientists and provide an overview of the centre's research facilities.

The four-week course, requiring a dedication time of 25 hours per week, will take place from **June 5th to June 30th, 2023**. Up to 12 students will be admitted, with registration fees waived for all participants.

During the program, students will participate in 88 hours of **practical scientific internships within four research groups** of their choice (one week in each), attend 12 hours of **seminars on current topics in life sciences**, and interact with CNB researchers. Prospective candidates are encouraged to visit our website for information on our projects and research interests. A list of groups offering activities is given below.

The completion of the Course subject to this call does not imply any type of contractual relationship between the beneficiary and the CNB. After a satisfactory completion of the Course, the CNB will issue a certificate of participation.

To apply, **submit a letter of motivation, academic transcript, and the completed application form by May 15th, 2023**, via email to research.course@cnb.csic.es.

APPLICATION FORM

FIRST NAME AND LAST NAME:

UNIVERSITY:

COURSE AND DEGREE SOUGHT:

AVERAGE MARKS (PLEASE ATTACH ACADEMIC TRANSCRIPT):

LABORATORIES PREFERENCE (CHOOSE 6, YOU WILL BE ASSIGNED TO 4):

MACROMOLECULAR STRUCTURES

- José María Valpuesta: Structure and function of molecular chaperones
- Fernando Moreno: Molecular Biophysics of DNA repair Nanomachines
- Carmen San Martín: Structural and physical determinants of viral assembly
- Esther Ortega: Protein factors involved in replicative stress in eukaryotes
- José María Carazo: Three-dimensional electron microscopy: image processing challenges

MOLECULAR AND CELLULAR BIOLOGY

- Lluís Montoliu: Animal models by genetic manipulation
- Marta Nieto: Cerebral cortical development
- Marta Lopez de Diego: Effect of viral and host factors on innate immunity, respiratory virus replication and pathogenesis
- Carmen E. Gómez: Poxvirus and vaccines
- Pablo Gastaminza: Hepatitis C viral infection
- Esteban Veiga: Bacteria-based immunotherapies against cancer

MICROBIAL BIOTECHNOLOGY

- Daniel López: Molecular infection biology
- Álvaro San Millán: Plasmid Biology and Evolution
- Luis Ángel Fernández: Bacterial engineering for biomedical applications

PLANT MOLECULAR GENETICS

- Eduardo González-Grandío: Plant bio-factories as a sustainable source of high-value compounds
- Jorge Vicente: Proteostasis in the plant immune system

IMMUNOLOGY AND ONCOLOGY

- Isabel Mérida: Role of diacylglycerol kinases in the control of immune response and cancer progression

SYSTEMS BIOLOGY

- Víctor de Lorenzo: Molecular Environmental Microbiology
- Saúl Ares: Theory of Clocks and Rulers in Life