

IICII Summer School in Quantitative Biology

September 09th- 20th, 2024 | IFOM, Milan - Italy



From 1D to 3D
chromatin organization

Francesco Ferrari,
organizer
IFOM, IT



Fitness
measurements

Andrea Ciliberto,
organizer
IFOM, IT



Luria-Delbrück Fluctuation
Test

Marco Cosentino Lagomarsino,
organizer
IFOM, IT



SP2G: Quantitative Motility
Test for Glioblastoma

Nils Gauthier,
organizer
IFOM, IT

Format and structure of the school

This is a hands-on school of quantitative biology where students perform wet-lab experiments, acquire the necessary theoretical tools to understand their data, analyze the data and quantify their results. The school is a joint initiative between ICTP-ICGEB, Curie Institute and IFOM (Hence the acronym - IICII). Each week is formed of two modules. Students can attend two modules out of four. The school will be held every Summer, rotating between Milan (IFOM), Trieste (ICTP-ICGEB), and Paris (Curie Institute). In each edition, the host node will set up the wet-lab part, and there will be guest lecturers from the other two nodes. The first edition will be held at IFOM in September 2024. We plan a second edition in Trieste in 2025 and one in Paris in 2026.

Target

A mix of undergraduates and Master's students from hard-sciences and biological sciences. The school is designed especially for students who are considering pursuing a PhD in research areas at the interface between biology and quantitative sciences.

Goal

The goal of the quantitative biology summer school is to promote interdisciplinary approaches to biological problems and create an interdisciplinary environment between biology and mathematics, physics, engineering, statistics, and computer science.

Eligibility

- ♦ Students currently enrolled in a first-level (undergraduate) or second-level degree program (Master's or equivalent) are eligible to apply.
- ♦ The school is open to students from all classes of science but we aim to balance biology and quantitative backgrounds (e.g. physics, engineering, statistics, applied/theoretical mathematics, computer science)

Selection process

- ♦ Up to a maximum of 20 students will be admitted to the school, depending on the evaluation of applications.
- ♦ The school organizers will evaluate the applications.
- ♦ Selection will be based on candidates' academic track record and motivation statements provided in the application form.
- ♦ For a limited number of students the school may be able to provide a fee waiver or partial reimbursement of travel expenses. However, this support is not guaranteed.

Housing/Benefits

For the students selected as participants the school will provide:

- ♦ Registration/attendance to the school
- ♦ Access to the IFOM lab facilities for the lectures, experimental and theoretical work
- ♦ Lunches at the campus during the weekdays of the school.
- ♦ One social dinner
- ♦ A limited number of fee waivers and shared on - or off-campus accommodation will be available.
- ♦ You may request lodging and waivers in the application form.
- ♦ Selected applicants will be notified before registration.

Application online. Deadline: March 31st 2024

www.ifom.eu/events/2024-summerschool-quantitative-biology/

