Preparing the next generation of scientists

A TARGETED CURRICULUM DEVELOPED BY THE COMPUTATIONAL BIOLOGY DEPARTMENT

In 2016, upon request from the General Board of Directors, the Hub of bioinformatics and biostatistics in collaboration with the Image Analysis Hub developed a training program dedicated to PhD students. According to their background, students are strongly encouraged to validate the statistical modules, and choose additional bioinformatics and image analysis modules.

A CORE FOUNDATION AND THE OPTION TO SPECIALIZE

Common core courses are mandatory for all IP PhD students. They include an introduction to reproducible research, experimental design and good scientific conduct. Each student then chooses a track of additional modules—R Programming and Statistics, Bioinformatics or Image Analysis—according to their background and field of research. We strongly encourage students who are not familiar with R or statistics to follow the corresponding modules.

INSTITUTIONAL RECOGNITION

This PhD program has been acknowledged by the doctoral schools CdV, FIRE, SDSV and Bio SPC.

MORE INFORMATION

COURSE WEB PAGES

Updated information on the courses, as well as course content and descriptions are available on the main web-page: https://research.pasteur.fr/fr/course/bioinformatics-program-for-phd-students-2021-2022/.

Course material, attendance sheets and other practical information will be made available on Moodle: https://moodle01.hosting.pasteur.fr/

CONTACT

Get in touch with the Institut Pasteur Department of Computational Biology about education and training at: bioinfo-program@pasteur.fr

TEACHERS

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The Bioinformatics program for PhD students was made possible by a grant from the INCEPTION program: https://www.inception-program.fr/en
This seven-hour course is required for all PhD students. The following topics will be covered:

- Description of the courses, the Department of Computational Biology, and the Hub of Bioinformatics and Biostatistics, and the Hub of Image Analysis
- Computer science 101
- Introduction to experimental design
- Good practices and reproducibility
- Ethics, good scientific conduct, and plagiarism

Between lectures, students will have the opportunity to assess their R programming and statistics level to help them choose which module to attend.

### SESSION 1: October 21, 22, 2021 (morning: 9h30-13h00) - Teams

### SESSION 2: February 4, 2022 (all day: 9h30-13h00 and 14h00-17h30) - Bâtiment François Jacob, room 28-01-01A