

ADE

A.A. 2024-2025

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|--------------------------------------|----------------------------------|--|-------------------------|---------------------|-----|--------------|--|
| TITLE | | Single-cell genome sequencing: paving the way for precision medicine | | | | | |
| PROF. | | Michele Caraglia, Silvia Zappavigna | | | | | |
| SCIENTIFIC DISCIPLINARY SECTOR (SSD) | | BIOS-07/A | | | | | |
| GENERAL AND SPECIFIC OBJECTIVES | | The teaching activity will cover all the recent advances in genetic testing and sequencing technologies together with their applications. The course will offer an overview of single cell sequencing (sc-RNAseq) technologies and the workflow starting from the preparation of the sequencing libraries, to the sequencing modalities and ending with information extraction and data analysis. The main fields of scRNA-seq application will be illustrated, and the most appropriate computational and statistical methods currently available for the analysis of scRNA-seq data will be discussed. At the end of the teaching activity a test with multiple answers will be administered to the students (30 questions with 5 answers with only one correct; minimal score to pass is 18). | | | | | |
| | ACTIVITY TYPE | PROPOSED ACTIVITY | MINIMUM DURATION (HOUR) | ADE DURATION (HOUR) | CFU | PROPOSED CFU | |
| | LABORATORY ACTIVITY /INTERNSHIPS | <input type="checkbox"/> | 13 | _____ | 1 | _____ | |
| | MONOGRAPHIC COURSES | X | > 13 | 14 | 1 | 1 | |
| | INTERACTIVE SEMINARS | <input type="checkbox"/> | ≥ 6,25 (up to 12,5) | _____ | 0,5 | _____ | |
| | INTERACTIVE SEMINARS | <input type="checkbox"/> | ≥ 12,5 | _____ | 1 | _____ | |
| ◆ ACADEMIC YEAR | | 2024/2025 | | | | | |
| ◆ MAXIMUM N. OF STUDENTS | | 50 | | | | | |
| ◆ STUDENT COURSE YEAR | | II-III-IV-V-VI | | | | | |
| ◆ BASIC KNOWLEDGE REQUESTED | | I year examinations plus Biochemistry examinations | | | | | |
| ◆ LOCATION | | Booked students will be notified | | | | | |
| ◆ DATE (S) AND TIME | | February 24 th , 25 th , 2025 | | | | | |
| ◆ CONTACTS | | silvia.zappavigna@unicampania.it | | | | | |

Booking deadline February 21st, 2025