

ADE

A.A. 2024-2025

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	<input checked="" type="checkbox"/>	> 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