

## ADE

### A.A. 2024-2025

TITLE	The oxygen-sensing system and its implication in human physiology and pathology.				
PROF.	Adriana Borriello, Emanuela Stampone, Debora Bencivenga				
SCIENTIFIC DISCIPLINARY SECTOR (SSD)	BIOS-07/A				
GENERAL AND SPECIFIC OBJECTIVES	<p>This series of seminars aims to decipher the biochemical mechanism through which our cells sense the oxygen levels and availability. Specifically, we will address:</p> <ul style="list-style-type: none"> <li>- the role of oxygen in cellular metabolism;</li> <li>- the PHDs-HIF-VHL pathway: reactions involved and their modulation;</li> <li>- the importance of the hydroxylation as protein post- translational modification;</li> <li>- the ubiquitin/proteasome-dependent protein degradation.</li> </ul> <p>The physiological and pathological implications of the Oxygen-sensing mechanism will be also discussed.</p>				
ACTIVITY TYPE	PROPOSED ACTIVITY	MINIMUM DURATION (HOUR)	ADE DURATION (HOUR)	CFU	PROPOSEDCFU
LABORATORY ACTIVITY /INTERNSHIPS	<input type="checkbox"/>	13	_____	1	_____
MONOGRAPHIC COURSES	<input type="checkbox"/>	> 13	_____	1	_____
INTERACTIVE SEMINARS	<input type="checkbox"/>	≥ 6,25 (up to 12,5)	_____	0,5	_____
INTERACTIVE SEMINARS	<input checked="" type="checkbox"/>	≥ 12,5	13	1	1
◆ ACADEMIC YEAR	2024/2025				
◆ MAXIMUM N. OF STUDENTS	80				
◆ STUDENT COURSE YEAR	II-III-IV-V-VI				
◆ BASIC KNOWLEDGE REQUESTED	Basic knowledge of Biochemistry and Biology are required				
◆ LOCATION	Booked students will be notified				
◆ DATE (S) AND TIME	From April 2 <sup>th</sup> to 30 <sup>th</sup> , 2025 (on Tuesday at 3:30 p.m.)				
◆ CONTACTS	adriana.borreillo@unicampania.it				

Booking deadline, March 30<sup>st</sup>, 2025