

## PROPOSAL FOR ELECTIVE DIDACTIC ACTIVITIES (ADE) A.A. 2022-2023

TITLE	The oxygen-sensing system and its implication in human physiology and pathology.				
PROF.	Adriana Borriello, Emanuela Stampone, Debora Bencivenga				
SCIENTIFIC DISCIPLINARY SECTOR (SSD)	BIO/10				
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>				
<b>ACTIVITY TYPE</b>	<b>PROPOSED ACTIVITY</b>	<b>MINIMUM DURATION (HOUR)</b>	<b>ADE DURATION (HOUR)</b>	<b>CFU</b>	<b>PROPOSEDCFU</b>
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	2022/2023				
◆ MAXIMUM N. OF STUDENTS	80				
◆ STUDENT COURSE YEAR	From the II year				
◆ BASIC KNOWLEDGE REQUESTED	Basic knowledge of Biochemistry and Biology are required				
◆ LOCATION	Booked students will be notified				
◆ DATE (S) AND TIME	Booked students will be notified				
◆ BOOKING METHOD	Booking deadline: February 28th, 2023 email to: <a href="mailto:adriana.borreillo@unicampania.it">adriana.borreillo@unicampania.it</a>				