Università degli Studi della Campania *Luigi Vanvitelli*

Scuola di Medicina e Chirurgia

Dipartimento di Medicina di Precisione

Degree Course in Medicine & Surgery in English Language

PROPOSAL FOR ELECTIVE DIDACTIC ACTIVITIES (ADE)
A.A. 2020-2021

TITLE ADE	The Oxygen-sensing system and its implication in human physiology and pathology.
PROF./ DR.	Adriana Borriello Emanuela Stampone Debora Bencivenga
SCIENTIFIC DISIPLINARY SECTOR (SSD)	BIO/10
GENERAL AND SPECIFIC OBJECTIVES (MAX 500 CHARACTERS)	This series of seminars aims to decipher the biochemical mechanism through which our cells sense the oxygen levels and availability. Specifically, we will address: 1) the role of oxygen in cellular metabolism; 2) the PHDs-HIF-VHL pathway: reactions involved and their modulation; 3) the importance of the hydroxylation as protein post-translational modification; 4) the ubiquitin/proteasome-dependent protein degradation. The physiological and pathological implications of the Oxygen-sensing mechanism will be also discussed.

ACTIVITY TYPE	PROPOSED ACTIVITY	MINIMUM DURATION (HOUR)	ADE DURATION (HOUR)	CFU	PROPOSED CFU
LABORATORY ACTIVITY /INTERNSHIPS	□	13	_____	1	_____
MONOGRAPHIC COURSES	□	> 13	_____	1	_____
INTERACTIVE SEMINARS	□	≥ 6,25 (up to12,5)	_____	0,5	_____
INTERACTIVE SEMINARS	x	≥ 12,5	13	1	1

♦ YEAR	II
♦ MAXIMUM N. OF STUDENTS	60
♦ STUDENT COURSE YEAR	From the II year
♦ BASIC KNOWLEDGE REQUESTED	Basic knowledge of Biochemistry and Biology are required
♦ LOCATION	On line
♦ DATE (S) AND TIME	April, 8th, 15th, 22nd, 29th at 15:00.
♦ BOOKING METHOD	Email to: adriana.borreillo@unicampania.it