

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

TITLE ADE	Enzymes: Catalysis and Kinetics				
PROF./ DR.	Maria Luisa Balestrieri Emanuela Stampone				
SCIENTIFIC DISCIPLINARY SECTOR (SSD)	BIO/10				
GENERAL AND SPECIFIC OBJECTIVES (MAX 500 CHARACTERS)	<p>This series of seminars aims to decipher the biochemical mechanism of the enzyme kinetics. Specifically, the following topics will be addressed:</p> <ol style="list-style-type: none"> 1) Thermodynamics of reactions: free energy variation and equilibrium constant. ΔG, ΔG^{01}. Reaction rate and transition state theory. 2) Concept of activation energy and function of a catalyst. 3) Enzymes. Models of Enzyme-substrate interaction. 4) Other examples of catalysts in nature: Ribozymes Catalytic antibodies. 5) Kinetics of the enzymatic reactions. 				
ACTIVITY TYPE	PROPOSED ACTIVITY	MINIMUM DURATION (HOUR)	ADE DURATION (HOUR)	CFU	PROPOSED CFU
LABORATORY ACTIVITY /INTERNSHIPS	<input type="checkbox"/>	13	_____	1	_____
MONOGRAPHIC COURSES	<input type="checkbox"/>	> 13	_____	1	_____
INTERACTIVE SEMINARS	x	≥ 6,25 (up to 12,5)	_____	0,5	_____
INTERACTIVE SEMINARS	<input type="checkbox"/>	≥ 12,5	13	1	1
◆ YEAR	I				
◆ MAXIMUM N. OF STUDENTS	80				
◆ STUDENT COURSE YEAR	From first year				
◆ BASIC KNOWLEDGE REQUESTED	Chemistry exam passed				
◆ LOCATION	On line				
◆ DATE (S) AND TIME	March, 11-12 at 10:00.				
◆ BOOKING METHOD	Email to: marialuisa.balestrieri@unicampania.it and c/c emanuela.stampone@unicampania.it				

Scuola di Medicina e
Chirurgia
Dipartimento di
Medicina di Precisione

Via de Crecchio 7
80138 Napoli
T.: +39 081 5667561
Via Pansini 5, Edificio 3
80131 Napoli
T.: +39 081 5666221

dip.medicinadiprecisione@unicampania.it
dip.medicinadiprecisione@pec.unicampania.it
www.medicinadiprecisione.unicampania.it