



# UNIVERSITÀ DELLA CALABRIA

Dipartimento di Farmacia e Scienze della Salute e della Nutrizione

Dipartimento di Chimica e Tecnologie Chimiche

**Dottorato di Ricerca in Medicina Traslazionale**



## XXXVII Cycle

### INDIVIDUAL TRAINING PLAN

Surname \_\_\_\_\_ Name \_\_\_\_\_

Supervisor: \_\_\_\_\_

#### Curriculum

- Molecular basis of diseases and pharmacological approaches for translational medicine;*
- The design of innovative molecules for both diagnostic and clinical use.*

1<sup>st</sup> year

Course	CFU	Selection
Advanced scientific english	3	
Research and innovation	3	
Evidenced-based medicine: basic principles and goals	1	
Preclinical and clinical evidence for drug development	1	
R&D strategies for drug development: the value of meta-analysis and randomized confirmatory trials in preclinical research	1	
Regulatory, ethical and scientific aspects for the use of animals in research	6	
Biotechnologies for translational medicine	2	
Nanomaterials for medicine	1	
Nanotechnologies and drug delivery:		
• Physicochemical properties of nanomaterials: implication and drug delivery	2	
• Innovative technologies for drug delivery	2	
Photodynamic therapy	1	
Metal-based compounds in light-activated cancer therapy	1	
Extracellular vesicles in translational medicine	1	

2<sup>nd</sup> year

Course	CFU	Selection
Translational cancer research	1	



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Translational breast cancer research	1	
Molecular Cell Biology:		
• Cancer cell metabolism: the role of nutrients	1	
• Serine and one carbon metabolism in cancer	1	
• Targeting cholesterol for anti-cancer therapy	1	
• Flow cytometry in the study of apoptosis	1	
• Steroid hormones in cancer progression	1	
Flow cytometry and 'in vivo' imaging	1	
Next Generation Sequencing for the diagnosis of rare diseases	1	
Transcriptomic analysis	1	
The role of proteomics in cancer	1	
Advanced mass spectrometry for food safety and quality	2	
Food and bioactive lipids	3	
Natural bioactive compounds: extraction and characterization by advanced methodologies	2	

**A maximum of 10 CFU can be assigned for the following activities:**

Other Activities	CFU	Selection
Conference Participation	0.5	
Oral/Poster Presentations at Conferences	1	
Seminar Attendance	0.5	

**Total CFU:** \_\_\_\_\_

Date \_\_\_\_\_

PhD Student

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