



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

XL CYCLE



INDIVIDUAL TRAINING PLAN

1st Year

1 st Year Course	Lead Instructor	CFU
English for Academic Skills	C L A	3
Evidenced-based medicine: basic principles and goals	Prof. Ines Barone	1
Preclinical and clinical evidence for drug development	Prof. Giacinto Bagetta Dr. Damiana Scuteri	2
R&D strategies for drug development: the value of meta- analysis and randomized confirmatory trials in preclinical research	Prof. Diana Amantea	1
Regulatory, ethical and scientific aspects for the use of animals in research	Dr. Rocco Malivindi	2
Nanomaterials for medicine	Prof. Gerado F Goya	1
Innovative technologies for drug delivery	Prof. Francesca Iemma Prof. Giuseppe Cirillo	1
Nanotechnologies and drug delivery - Physicochemical properties of nanomaterials	Prof. Fiore Nicoletta Dr. Manuela Curcio	1
Flow cytometry and 'in vivo' imaging	Prof. Rosamaria Lappano	1
Strategies for the identification of new diagnostic targets in molecular medicine	Dr. Graziantonio Lauria	1
Novel cellulose materials for advanced applications	Prof. Paola Costanzo	2
Use of primary cellular and organotypic cultures in preclinical studies: focus on neurodegenerative diseases	Dr. Annagrazia Adornetto	1
Biotechnologies for translational medicine	Prof. Pietro Rizza	2
The role of proteomics in cancer	Dr. Luca Gelsomino	1
Transcriptomic analysis	Prof. Erika Cione	1
Innovative synthetic approaches in medicinal chemistry	Dr. Anna Ramunno	2
Translational Autoimmunity	Dr. Lucia Novelli	1
Bacterial resistance mechanisms and new chemotherapeutics	Dr. Francesca Greco	1
Computational studies for Drug discovery	Dr. Maria Antonietta Occhiuzzi	1
Antioxidant molecules as strategy for targeting the oxidative stress: contributions from computational modelling	Prof Tiziana Marino	2



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

XL CYCLE



2nd Year

2 nd Year Course	Lead Instructor	CFU
Research and innovation	Liason Office	3
Translational cancer research	Prof. Bruno Simoes	1
From ethnobotany to phytotherapy	Prof. Filomena Conforti Prof. Rosa Tundis Prof. Giancarlo Statti	3
Molecular Cell Biology: 1) Cancer cell metabolism: the role of nutrients 2) Serine and one carbon metabolism in cancer 3) Targeting cholesterol for anti-cancer therapy 4) Estrogen receptors- mediated apoptosis in hormone-dependent cancers 5) Steroid hormones in cancer progression	Prof. Vincenzo Pezzi Prof. Ivan Casaburi Prof. Rosa Sirianni Prof. Adele Chimento Prof. Francesca De Amicis	5
Neuroimaging biomarkers of Parkinson's disease and Parkinsonism	Dr. Paolo Perotta	1
Acute myeloid leukemia: molecular basis and target therapy	Dr. Ernesto Vigna	1
Chronic lymphocytic leukemia and multiple myeloma: pathogenetic prognostic and therapeutic aspects	Dr. Massimo Gentile	1
Bibliographic research and writing of a scientific article	Dr. Nicola Ramacciati	1
Biochemical tools to unmask metabolic targets for cancer therapy	Dr. Luca Frattaruolo	1
Metal-based compounds in light-activated cancer therapy	Prof. Marta E. Alberto	1
Mechanisms of action in photodynamic therapy	Prof. Gloria Mazzone	1
How to write a scientific paper and present research data successfully	Prof. Paola Tucci	1
Urological pathologies: new diagnostic therapeutic approaches based on artificial intelligence (AI)	Dr. Michele Di Dio	2
Improving the diagnosis of rare genetic diseases with NGS approaches	Prof. Luisa F Conforti	1
Coronary physiology and microcirculation	Dr. Alberto Polimeni	1
Liquid biopsy in Diffuse Large B Cell Lymphoma (DLBCL): current and future applications	Dr. Enrica Antonia Martino	1
New Frontiers in Surgical Research: From Global Surgery to the Development of Surgical Research Collaboratives	Dr. Francesco Pata	1



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

XL CYCLE



3rd Year

3 rd Year Course	Lead Instructor	CFU
Natural bioactive compounds: extraction and characterization by advanced methodologies	Dr. Lucia Bartella	2
microRNA: biology, function and analysis tools	Prof. Adele Vivacqua	1
Extracellular vesicles in translational medicine	Prof. Cinzia Giordano	1
Food and bioactive lipids	Prof. Pierluigi Plastina	1
Advanced mass spectrometry for food safety and quality	Prof. Leonardo Di Donna	2
Preparation of heterocycles with potential pharmacological activity	Prof. Loredana Maiuolo	2
Preclinical research for a rationale development of natural products	Prof. Laura Rombolà	1

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

Other Activities	CFU
Conference Participation	0.5
Oral/Poster Presentations at Conferences	1
Seminar Attendance	0.5 (max 3 CFU/year)