

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



XXXIX CYCLE

INDIVIDUAL TRAINING PLAN

Surname _____ Name _____

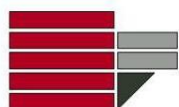
Supervisor: _____

Curriculum

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

1st Year

| Course | Lead Instructor | CFU | Selection |
|--|---|-----|-----------|
| 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: <ul style="list-style-type: none">• 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 Costanza | 2 | |
| Systems coding and classification for recovery from the information within healthcare | Dr. Erika Pasceri | 1 | |
| Use of primary cellular and organotypic cultures in preclinical studies: focus on neurodegenerative diseases | Dr. Annamaria Adornetto | 1 | |
| Biotechnologies for translational medicine | Dr. Pietro Rizza | 2 | |
| The role of proteomics in cancer | Dr. Luca Gelsomino | 1 | |
| Transcriptomic analysis | Prof. Erika Cione | 1 | |



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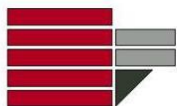
Dottorato di Ricerca in Medicina Traslazionale



2nd Year

XXXIX CYCLE

| Course | Lead Instructor | CFU | Selection |
|---|---|-----|-----------|
| Research and innovation. | Liason Office | 3 | |
| Translational cancer research (I) | Prof. Bruno Simoes | 1 | |
| Translational cancer research (II) | Prof. Suzanne Fuqua | 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 | Prof. Paola 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 | |
| Preparation of heterocycles with potential pharmacological activity | Prof. Loredana Maiuolo | 2 | |
| Preclinical research for a rationale development of natural products | Dr. Laura Rombolà | 1 | |
| Biochemical tools to unmask metabolic targets for cancer therapy | Dr. Luca Frattaruolo | 1 | |
| Metal-based compounds in light-activated cancer therapy | Dr. Marta E Alberto | 1 | |
| Mechanisms of action in photodynamic therapy | Dr. 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 | |



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XXXIX CYCLE

3rd Year

| Course | Lead Instructor | CFU | Selection |
|---|--------------------------|-----|-----------|
| 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 | |
| Bio optical properties of human skin and uses of electromagnetic radiation in medical science | Dr. Marta E Alberto | 1 | |
| Advanced mass spectrometry for food safety and quality | Prof. Leonardo Di Donna | 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