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Italiadomani
PIANO NAZIONALE DI RIPRESA E RESILIENZA

ROME TECHNOPOLE INNOVATION ECOSYSTEM

Rome Technopole
Starting date: 1st July 2022
Ending date: 30th June 2025

Webinar
09.02.2024

Prof.ssa Roberta Bernini
Referente Spoke 3 - Università degli Studi della Tuscia
E-mail: roberta.bernini@unitus.it

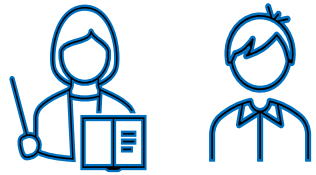
ROME TECHNOPOLE
INNOVATION ECOSYSTEM

UNIVERSITÀ DEGLI STUDI DELLA TUSCIA

Educational programs

The **educational programs** of the **University of Tuscia in Viterbo** consist of **Bachelor's, Master's, Single-Cycle Degree Programs, PhD Courses** (**Social Sciences, Science and Technology and Human Sciences Area**)

- **https://www.unitus.it/corsi/**
- **https://www.unitus.it/post-laurea/dottorati-di-ricerca/**



Coherence with the thematic areas of Rome Technopole

- Energy Transition
- Digital Transition
- Health & Biopharma

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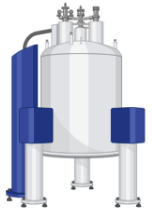
Courses for PhD students

Area Rome Technopole: Health & Biopharma

Nuclear Magnetic Resonance (NMR) Spectroscopy for the Characterization of Small Organic Molecules



Area Rome Technopole: Health & Biopharma

Introduction to Microscopy in the Study of Plant and Animal Cells and Tissues

Area Rome Technopole: Energy Transition

Life Cycle Assessment (LCA) of Agro-Livestock Systems

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General information

- Level: Beginner
- Language: Italian/English
- Duration: 8 h
- Period: First semester 2024
- Modality: Hybrid (in person and online)
- Lectures
- Practical activities/exercises
- Partecipants: 20

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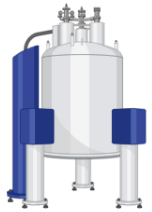
Nuclear Magnetic Resonance (NMR) Spectroscopy for the Characterization of Small Organic Molecules

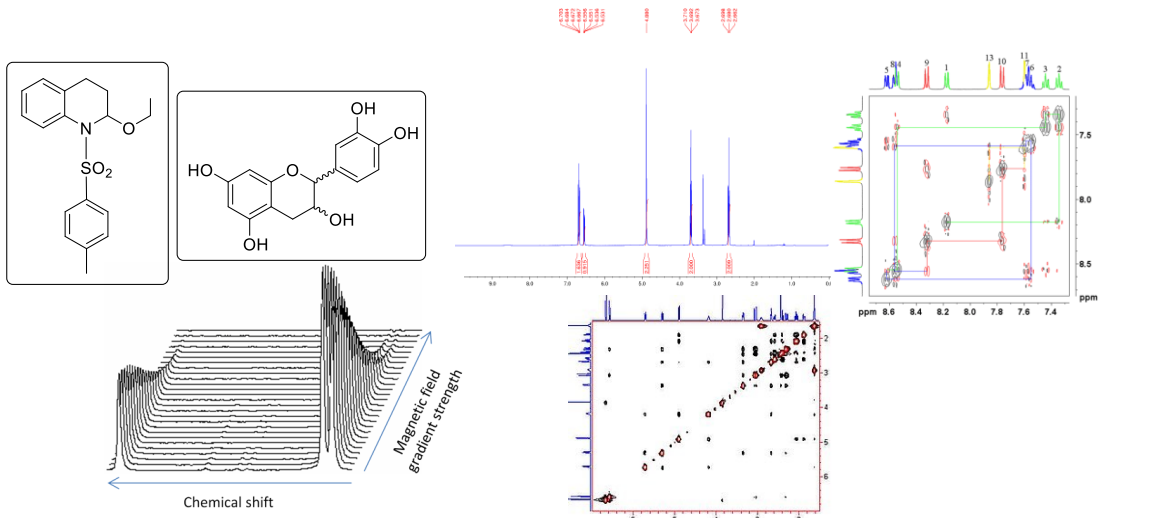
Main objective

The course is structured to provide students with the basic knowledge to correlate/predict Nuclear Magnetic Resonance (NMR) spectra with the structure of small organic molecules useful for their characterization

Short description



- Basic NMR theory
- Mono-dimensional experiments
- Bi-dimensional experiments
- Criteria for the interpretation of NMR spectra
- Prediction of NMR spectra
- Application to small organic molecules



Contacts

Prof. Roberta Bernini, E-mail: roberta.bernini@unitus.it
Dr. Andrea Fochetti, E-mail: andrea.fochetti@unitus.it
Dipartimento di Scienze Agrarie e Forestali (DAFNE)

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Introduction to Microscopy in the Study of Plant and Animal Cells and Tissues

Main objective

The course aims to provide students with the fundamental concepts of optical microscopy applied to biological studies

Short description

- Concise overview of the historical development of microscopy
- Description of optical microscopes
- Utilization of optical microscopes and methodologies for studying plant and animal cells and tissues
- Application of antibodies and immunostaining techniques to detect proteins and cells within biological samples

Contacts

Prof. Elisa Ovidi, E-mail: eovidi@unitus.it
Dipartimento per la Innovazione nei Sistemi Biologici, Agroalimentari e Forestali (DIBAF)

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Life Cycle Assessment (LCA) of Agro-Livestock Systems

Main objective

The course is designed to provide students with the basics of Life Cycle Analysis (LCA) methodology, with particular attention to the application for environmental assessments of agro-livestock systems

Short description

- Theory of LCA, covering the fundamental principles, the regulatory framework, methodologies for life cycle analysis and environmental impact assessment
- Practical application of LCA related to agro-livestock systems
- Case-study using dedicated software

Contacts

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Dipartimento di Scienze Agrarie e Forestali (DAFNE)

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Grazie per l'attenzione!

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