

Università degli Studi di Padova





Dipartimento di Scienze del Farmaco

Short course

Advanced approaches of chromatography and spectroscopy for proteins and other bioactive compounds characterization

Prof. Ruperto Bermejo Román Linares High Polytechnic School of Engineering Department of Physical and Analytical Chemistry University of Jaén, Spain

6 May h 11.30-13.30 7 May h 9.30-11.30 8 May h 10.30-11.30 9 May h 12.30-13.30

Aula OF Complesso Didattico di Biomedicina 'Fiore Di Botta'

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Lecture 1: New methodologies for large scale purification of proteins

- a. A comparison between conventional and new methodologies.
- b. The use of expanded bed adsorption chromatography for large scale protein purification and scale-up of the process for industrial applications.

Lecture 2: Using spectroscopy for compounds characterization

- a. Absorbance spectroscopy
- b. Fluorescence spectroscopy
- c. Colorimetry

Lectures 3-4: Applications to biomolecules with biotechnological and pharmaceutical interest

- a. Magnetic-fluorescent nanoparticles using proteins for biomedicine
- b. Proteins as natural colorants in foods and drinks
- c. New antioxidants for preventing human diseases
- d. Evaluation test (30 min)

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