



Course Units

Interacção de Argilas com Bio-Sistemas Clays and biological systems interactions

Contents

Mineralogical and environmental bases. Basics in physiology and cell biology-biochemistry. Basics in chemistry and biochemistry. Bio-adhesivity; bio-activity, bacteriological studies, microflora characterization, and evaluation of anti-inflammatory action. Photosynthetic activity measured by Pulse Amplitude Modulated fluorometry. Detection of SGLs by HPTLC, quantified by Azure A colorimetric method and chemically characterized by MS Bacteria identification by DGGE.

Learning outcomes

With this course the student becomes familiar with physical-chemical processes and biochemical of ripening; specific applications; clays used as absorbent, adsorbent, anti-caking agents, agents for coating, viscosity increasing agents, stabilizers, binders, therapeutic agents, solvents, encapsulates, etc.

Horary

2TP+2P per week (total 56 h)

Teachers

Fernando Rocha, Slavka Andrejkovicová, Ana Quintela

ECTS delivered

6 ECTS

Evaluation

50% written exam; 50% exercises