

CONFERENCIA 27 Mayo- organizado por el Proyecto Arqus

Desde el Dom, 17/05/2026 - 12:00

"DNA Methylation in Lung Cancer: Biological and Clinical Implica"

Dr. Fabrizio Federico Pio
(University of Enna "Kore", Italy).

Titulo: DNA Methylation in Lung Cancer: Biological
and Clinical Implications for Precision Oncology.

The topic of this presentation is the tumour methylome in lung cancer and its translational relevance in precision oncology. In non-small cell lung cancer, DNA methylation undergoes significant alterations during tumorigenesis, reflecting tumour biology, clinico-pathological features, and treatment response.

Fabrizio Federico Pio's research focuses on the identification of prognostic and predictive epigenetic biomarkers to support therapeutic decision-making. In particular, methylation changes affecting genes such as KEAP1, SPARC, and immune-related pathways including PD-L1 highlight the evidence of epigenetic mechanisms involved in tumour progression and response to immunotherapy.

Overall, this talk aims to address unmet clinical needs in non-small cell lung cancer, particularly early patient identification and risk stratification, highlighting the key role of molecular biology from a translational perspective. Special emphasis will be placed on the advent of liquid biopsy and the analysis of cell-free DNA methylation patterns as innovative tools to improve detection and treatment selection in this group of cancer patients.

- Fecha: 27 de mayo de 2026

<http://masteres.ugr.es/biotecnologia/>



- Hora: 12:00
- Lugar: SALÓN DE GRADOS B. FACULTAD DE MEDICINA.

ORGANIZADOR:

Comisión Académica del Máster en Biotecnología en el marco del Proyecto Arqus
Teaching Innovation

Título del Proyecto: Educational Materials for the Curriculum Design of the Master's
Program in Biotechnology