



SOCIEDAD MEXICANA DE FITOPATOLOGÍA A.C.



**UAdeO**  
UNIVERSIDAD  
AUTÓNOMA DE  
OCCIDENTE



**CONAHCYT**  
CONSEJO NACIONAL DE HUMANIDADES  
CIENCIAS Y TECNOLOGÍAS

## **Pre-congress course: Principles and Applications of Proteomic Techniques November 20, 2023.**

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### **Details:**

Duration: 8 am – 5 pm. Four hours in the morning and 4 hours in the afternoon as shown below:

Morning: 2 hours + 30-minute break + 2 hours

Afternoon: 2 hours + 30-minute break + 2 hours

### **Topics**

#### ***1. Structure and function of proteins***

- Initial concepts and theoretical considerations
- Protein synthesis
- Relationship between structure and biological function of proteins

#### ***2. Techniques explored in proteomics***

- Electrophoresis (conventional and 2-DE)
- Liquid chromatography
- Mass spectrometry
- CryoEM

#### ***3. Instrumentation***

- Sample preparation
- How results are generated
- Visualization and interpretation of results

#### ***4. Application***

- Application of techniques in different fields