

DATOS GENERALES

Curso académico	Curso 2022/2023
Tipo de curso	Microcredencial Universitario
Número de créditos	3,00 Créditos ECTS
Matrícula	350 euros (importe precio público)
Requisitos de acceso	Those interested in basic, biotechnological and ecological applications of flow cytometry
Modalidad	On-line
Lugar de impartición	Online
Horario	Monday-Friday 16.00-20.00 hours

Dirección

Organizador

Dirección JosÉ Enrique O'Connor Blasco
Catedrático/a de Universidad. Departament de Bioquímica i Biologia Molecular. Universitat de València

Plazos

Preinscripción al curso	Hasta 31/03/2023
Fecha inicio	Mayo 2023
Fecha fin	Julio 2023

Más información

Teléfono	961 603 000
E-mail	informacion@adeituv.es

PROGRAMA

Flow Cytometry

1. TECHNICAL BASES OF FLOW CYTOMETRY:
 - 1.1 Technical basis of flow cytometry.
 - 1.2 Overview of general applications of flow cytometry.
 - 1.3 Fluorescence and fluorescent markers.
 - 1.4 Components and operation of the flow cytometer: Fluidic System
 - 1.5 Components and operation of the flow cytometer: Optical System
 - 1.6 Components and operation of the flow cytometer: Electronic System
 - 1.7 Generation, Presentation, Storage and Data Management in Flow Cytometry
 - 1.8 Recent advances in Flow Cytometry
 - 1.9 Cytometry resources on the Internet.
2. APPLICATIONS IN BIOMEDICINE, BIOTECHNOLOGY AND ENVIRONMENT
 - 2.1 Flow Cytometry in Genomics and Transcriptomics
 - 2.2 Analysis of Cell Proliferation by Flow Cytometry
 - 2.3 Analysis of Cell Death by Flow Cytometry
 - 2.4 Analysis of Metabolism and Bioenergetics by Flow Cytometry
 - 2.5 Real Time Flow Cytometry (In Fluxo Analysis)
 - 2.6 Analysis of intercellular communication and signal transduction by Flow Cytometry
 - 2.7 Analysis of microparticles and extracellular microvesicles by Flow Cytometry
 - 2.8 Flow Cytometry in the study of Toxicity Pathways and Regulatory Toxicology
 - 2.9 Flow Cytometry in Preclinical Pharmacology and in Drug Discovery
 - 2.10 Flow Cytometry in Botany and Agriculture
 - 2.11 Flow Cytometry in Farming and Zootechnics
 - 2.12 Flow Cytometry in Environmental Studies

PROFESORADO

Alberto Álvarez Barrientos

Licenciatura en Biología

Guadalupe Herrera Martín

Técnico/a Superior Personal Técnico de Apoyo. Universitat de València

Alicia Martínez Romero

Responsable del Servicio de Citometría - Fundación de la Comunidad Valenciana - Centro de Investigación Príncipe Felipe Valencia

José Enrique O'Connor Blasco

Catedrático/a de Universidad. Departament de Bioquímica i Biologia Molecular. Universitat de València

Jordi Pérez González

Francisco José Sala de Oyanguren

Investigador Doctor, Ludwig Institute for Cancer Research, Université de Lausanne

OBJETIVOS

Las salidas profesionales que tiene el curso son:

Improving the basic and applied knowledge in flow cytometry

The general objective of the course is to provide students with specialized knowledge in flow cytometry that will include the design and application of cytometric analysis procedures, the acquisition and management of data and the interpretation of results in basic, biotechnological and ecological applications of flow cytometry.