

NEXTSCREEN

DOCTORAL NETWORK

Workshop NEXTSCREEN in microscopy and fluidics

July 16, 2024 to July 19, 2024

Elements Room (Mir-Puig building)

This **4-day international school** will cover topics including:?

Fundamentals of fluorescence microscopy

Advanced microscopy modalities

Light sheet fluorescence microscopy

Pressure and flux pumping systems for microfluidics

Lab and hands-on session

This school brings together PhD students from many institutes and offers a great opportunity for networking and scientific discussions.

Lectures:

Valentina Caorsi (Abbelight)

Sandrine Leveque Fort (ISMO-CNRS)

Lisa Muiznieks (Microfluidic, ex Elvesys)

Andrea Bassi (Polimi)

Pablo Loza Alvarez (ICFO)

Anna Plebani (Technology Transfer Office, Polimi)

About

Nextscreen i½Training network for next-generation cellular screeningi½ is a joint Doctoral Network supported by the Marie?Sk?odowska-Curie?Actions (MSCA) of Horizon Europe.?

The project aims to train and establish a network of doctoral researchers that will exploit the capabilities of the existing imaging flow cytometry (IFC) instruments and initiate the development of next-generation automatic and data-driven diagnostics tools. This first workshop is being held at ICFO, focusing primarily on the fields of microscopy and fluidics:

In microscopy, will cover topics from the fundamental concepts of fluorescence microscopy to advanced microscopy modalities such as super-resolution. Additionally, lab and hands-on sessions will be conducted by the Super Resolution Light Microscopy and Nanoscopy (SLN) group.

In fluidics, the ELVESYS group, which specializes in developing cutting-edge microfluidics instruments, will explain the principles of pressure and flux pumping systems used in microfluidics.

Finally, there will be a conference on intellectual property protection, valorization and exploitation by the technology transfer office of POLIMI.