



SUMM3R SCHOOL

A practical-
theoretical
course
organised by
Centro 3R and
University of
Genoa



ADVANCES IN BIOMEDICAL SCIENCES

**Human and environmental-
related research and testing**

WHO

Students who have completed a Master's degree or PhD students, working in relevant fields of research and applications.

WHEN

9-10-11 July, 2025

WHERE

Genoa, Italy

**SPONSORED
BY**



MATTEK 
A BICO COMPANY



TEMPTATIVE TOPICS

HANDS ON



- ORGAN-ON-A-CHIP & MICROPHYSIOLOGY SYSTEMS
- BIOLOGICAL BARRIERS
- STEM CELL MODELS
- ORGANOIDS AS MODELS FOR ORGAN DEVELOPMENT AND DISEASES
- BIOMATERIALS FOR TISSUE ENGINEERING
- RECONSTRUCTED TISSUES AS MODEL FOR TOXICITY STUDIES
- NOVEL IN SILICO TOOLS
- EMERGING TECHNOLOGIES
- REGULATORY SAFETY ASSESSMENT THROUGH INNOVATION

- 3D BIOPRINTING FOR GENERATING LIVING TISSUE MODELS
- MICROPHYSIOLOGICAL PLATFORM TO DEVELOP HIGHLY RELEVANT AND PREDICTIVE MODELS
- MILLIFLUIDICS FOR ADVANCED IN VITRO MODELS
- IMAGING AND BASIC IMAGE PROCESSING

**INVITED
SPEAKERS**