NanoBiosensors School,

Nanobalkan 2026,

Tirana International Hotel,

Thursday, October 29th, 2026

The Nanobiosensors School aims to provide a comprehensive overview of the latest advances in the field of nanobiosensors, emphasizing innovative technologies and practical applications. The school offers participants the opportunity to engage with leading researchers and gain hands-on experience in biosensing methodologies. Through a series of lectures, attendees will explore cutting-edge developments in nanomaterials, biosensor fabrication, and their applications in healthcare and diagnostics.

Objectives: The primary objectives of the Nanobiosensors School are to: 1. Equip participants with knowledge on current trends in biosensing, including electrochemical and optical sensors. 2. Foster collaboration between academia and industry to accelerate the development and commercialization of biosensing technologies. 3. Provide a platform for early-career researchers to network with established professionals and explore potential avenues for innovation in nanobioelectronics.

The Nanobiosensors School is organized by Prof. Arben Merkoçi, PhD: ICREA Research Professor and Group Leader at ICN2; Dr. Danilo Echeverri Hincapié, PhD: Post-doctoral researcher at ICN2; Dr. Massimo Urban, PhD: Post-doctoral researcher at ICN2.

Event's agenda:

Session 1	**Chair: Dr. Massimo Urban**
TIME	**SPEAKER/TALK**
09:00 – 09:10	**Organizing comitee** / Welcome and introduction
09:10 – 09:40	**Prof. Claudio Parolo** / Target Product Profiles: The Missing Link Between Nanobiosensor Innovation and Clinical Practice
09:40 – 10:10	**Prof. Peter Lieberzeit** / Biomimetic detection explained through molecularly imprinted polymers: why and how?
10:10 – 10:40	**Dr. Laura Anfossi** / Nanomaterial-Based Signal Reporters in Lateral Flow Immunoassays: Principles, Performance and Analytical Trade-Offs

10:40 – 11:00 Coffee break

Session 2	**Chair: Dr. Danilo Echeverri**
TIME	**SPEAKER/TALK**
11:00 – 11:30	**Mr. Timon Grosch, Prof. Can Dincer** / Facemask-Integrated Biosensor for Wearable Real-Time Metabolic Monitoring of VO_2, VCO_2 and Breath Lactate
11:30 – 12:00	**Prof. Andrea Idili** / Continuous Monitoring DNA-based Biosensors
12:30 – 13:00	**Prof. Albana Veseli** / Building Better Electrochemical Sensors for Food and Water Analysis: Lessons from Electrode Modification

13:00 – 14:30 Lunch break

Session 3	**Chair: Dr. Marianna Rossetti**
TIME	**SPEAKER/TALK**
14:30 – 15:00	**Dr. Panagiota Kalligosfyri** / Design, Print, Sense: a practical introduction to 3D printing workflows for biosensor fabrication
15:00 – 15:30	**Prof. Yasuaki Einaga /** From Lab Research to Practical Applications: Electrochemical Sensors Based on Boron-doped Diamond Electrodes
15:30 – 15:40	Closing remarks