

## Workshop

### “Sustainable nanotech-based biosensors”

Tirana (Albania) - October 18, 2023



During the **nanoBalkan2023 International Conference** one day will be dedicated to the workshop “Sustainable nanotech-based biosensors”, organized in the frame of SUSNANO Project -Twinning to boost the scientific and innovation capacity of the Universiteti i Tiranës to develop sustainable nanosensors for water pollution detection, ([www.susnano.eu](http://www.susnano.eu)). The SUSNANO project aims to develop innovative sustainable nanosensors to detect heavy metals, pesticides and antibiotics. This workshop aims to highlight the most important achievements at the world level in the in the field of developing sensors and biosensors based on smart nanomaterials and innovative techniques for environment, diagnostic and food & safety control. This event aims to create the possibility of establishing contacts, connections and collaborations important for other developments in this field. Scientists from different countries and representatives from SUSNANO partners will share the experience and scientific achievements and also ideas about new trends in developing nanotech-based biosensors.

**LOCATION:** Tirana International Hotel & Conference Centre. City Center, Scanderbeg Square, Tirana, Albania

**DATE:** October 18, 2023

**ORGANISERS:** Event organized by SUSNANO Project with the support of Phantoms Foundation (Spain)

#### **ORGANISING COMMITTEE:**

**Coordinator:** Majlinda Vasjari (University of Tirana, Albania)

Arben Merkoçi (ICN2, Spain)

Michal Otyepka (Palacky University, Check Republic)

Ruslan Alvarez (ICN2, Spain)

Petr Jakubec (Palacky University, Check Republic)

Nevila Broli (University of Tirana, Albania)

Loreta Vallja (University of Tirana, Albania)

Besnik Bare (University of Tirana, Albania)

## SUSNANO Symposium: "Sustainable nanotech-based biosensors"

Wednesday October 18, 2023 - Tirana International Hotel

- 09:00-09:15 **Welcome (Majlinda Vasjari)**
- 09:15-09:45 **Antonella Macagnano, CNR, Italy**  
Convergence of Molecularly Imprinted Polymers and Electrospinning technologies to design advanced selective sensors of VOCs
- 09:45-10:15 **Fabiana Arduini, Roma, Italy**  
Paper-based electrochemical (bio)sensors: a new generation of devices with unprecedented features
- 10:15-10:45 **Mamas (Mamantos) Prodromidis, Ioannina, Greece**  
Wax Screen Printed Fabric-Based Colorimetric Microfluidic Wearable (Bio)Sensors for Biomarkers in Sweat
- 10:45 -11:15 **Brainstorming & Coffee break/Poster session**
- 11:15 -11:45 **Sibel A. OZKAN, Ankara, Turkey**  
An Overview of Electroanalytical Carbon-Based Nanosensors and Their Applications: The Current and Future Prospect
- 11:45-12:15 **Jean-Jacques Toulmé, Paris, France**  
Aptamer-based nanosensors for the detection of small organic molecules
- 12:15-12:45 **Martin Pumera, CEITEC, Czech Republic**  
3D printing meets 2D materials for Energy Storage and Sensing
- 12:45-13:00 **Angela Gilda Carota, University of Pisa, Italy**  
CRISPR/Cas12a based portable and low-cost Inkjet printed platform for one-pot pathogen detection
- 13:00-14:00 **Brainstorming & Lunch**
- 14:00-14:30 **Can Dincer, Friburg, Germany**  
CRISPR-powered multiplexed biosensors for point-of-care management of infectious diseases
- 14:30-14:45 **Liridon Berisha, University of Prishtina, Albania**  
Electrochemical Paper Analytical Device for nitrite and nitrate determination
- 14:45-15:10 **Coffee Break / Poster Session**
- 15:10-15:20 **Ana Ameda, University of Tirana, Albania**  
Electrochemical determination of heavy metals using hybrid nanosheets of Au@rGO

- 15:20-15:30 **Gabriel Maroli, ICN2, Spain**  
Enhancing Resistive Humidity Sensors with rGO Resistors for Thermal Compensation
- 15:30-15:40 **Lueda Kulla, University of Tirana, Albania**  
Development of GCE modified with graphene derivatives for detection of paraquat
- 15:40-15:50 **Nensi Isak, University of Tirana, Albania**  
Maximizing the adsorption efficiency in electrochemical determinations: Insights into electrode surface modifications
- 15:50-16:00 **Sadik Cenolli, University of Tirana, Albania**  
Electrochemical detection of azithromycin based on modified carbon paste electrode
- 16:00-16:15 **Wrap-up and Closing remarks**
- 16:15-17:45 **Project partners meeting (restricted meeting).**