



7th WORKSHOP

NANOTECHNOLOGIES FOR 21st CENTURY

COOPERATION EVENT BETWEEN ALBANIA, JAPAN AND SPAIN

Tirana, Albania | October 27, 2026

This workshop strengthens collaboration among Albania, Japan and Spain in nanoscience and nanotechnology and their applications in life sciences, information technologies and energy. Scientists and institutional representatives will exchange ideas on joint research, funding opportunities and cooperation with industry.

LOCATION: Tirana International Hotel & Conference Centre, Tirana, Albania

DATE: October 27, 2026

ORGANISERS: Event organized by the Phantoms Foundation (Spain), with support from ICN2, CERCA and BIST (Spain); NanoAlb and the Academy of Sciences (Albania); Keio University (Japan); and the Embassies of Spain and Japan in Albania.

ORGANISING COMMITTEE

Antonio Correia	Phantoms Foundation, Spain Coordinator
Arben Merkoçi	ICN2, Spain Co-Coordinator
Ruslán Alvarez	ICN2, Spain
Kledi Xhaxhiu	NanoAlb, University of Tirana, Albania

TENTATIVE PROGRAM

8:55-9:15	Welcome by the organizers and representatives of the Embassies of Japan and Spain in Tirana
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TENTATIVE PROGRAM

 SPAIN		Chair: Prof. Dr. Kledi Xhaxhiu
9:15-9:30	José M. Costa-Fernández University of Oviedo, Spain <i>Advanced Spectroscopic Approaches for Functional Nanomaterials: From Comprehensive NMs Characterization to Bioimaging and Nanobiotechnology Applications</i>	
9:30-9:45	Prof. Francisco Javier Andrade Universitat Rovira i Virgili, Spain <i>High-Performance Sensing Arrays Using Paper-Based Electrochemical Sensors</i>	
9:45-10:00	Dr. Aziz Genç ICN2, Spain <i>GAeN at ICN2: Advanced Electron Nanoscopy for Collaborative Nanoscience and Materials Research</i>	
10:00-10:15	Dr. Danilo Echverri ICN2, Spain <i>Laser-engraved rGO nanostructured electrodes for (bio)sensing applications</i>	
10:15-10:45	Coffee break and networking	
 JAPAN		Chair: Dr. Ruslán Alvarez
10:45-11:00	Prof. Yasuaki Einaga Keio University, Japan <i>Recent Development of Diamond Electrochemistry</i>	
11:00-11:15	Dr. Hiroshi Aoki National Institute of Advanced Industrial Science and Technology, Japan <i>Sensor Arrays for Rapid and Simple Analysis of Fish Genome DNAs from Fish-Inhabiting Environmental Waters</i>	
11:15-11:30	Prof. Kei Noda Keio University, Japan <i>Thin-Film Preparation and Device Application of Polymer Semiconductors</i>	
 ALBANIA		Chair: Prof. Yasuaki Einaga
11:30-11:45	Prof. Dr. Fetah Podvorica University of Prishtina (NanoAlb) <i>Electrochemical Grafting of Material Surfaces with Aryl Diazonium Salts</i>	
11:45-12:00	Prof. Dr. Valbona Aliko University of Tirana (NanoAlb) <i>Decoding the Blood-Nanoplastic Interactome: Erythrocytes as Sentinel Cells for Emerging Nanotoxicological Paradigms</i>	
12:00-12:15	Prof. Dr. Magdalena Cara Agricultural University of Tirana (NanoAlb) <i>Nanotechnology-Assisted Strategies for Plant Pathogen Detection and Management: Advancing Agricultural Innovation</i>	
12:15-12:30	Prof. Dr. Majlinda Vasjari University of Tirana (NanoAlb) <i>A Novel BDDP-Modified Screen-Printed Carbon Electrode for Electrochemical Sensing</i>	
12:30-12:45	Prof. Dr. Arjan Korpa University of Tirana (NanoAlb) <i>Transforming Inert Materials into High-Performance Cementitious Components through Innovative Activation Strategies</i>	
12:45-14:00	Lunch	
14:00-14:15	Prof. Dr. Partizan Malkaj Polytechnic University of Tirana (NanoAlb) <i>Nanotechnology in Polymer Photovoltaic Cells: Innovations for Renewable Energy in Albania</i>	
14:15-14:30	Prof. Dr. Kledi Xhaxhiu University of Tirana (NanoAlb) <i>Nanomaterial Surface Modifications Supported by Theoretical Calculations for Enhanced Electrode Performance in ESV</i>	
14:30-14:45	Brainstorming and session closing	
14:45	Closing remarks	