

Tentative Program

(as of 16/09/2025)

MONDAY SEPTEMBER 29, 2025

00 00 00 45	Partition to a	
08:00-08:45	Registration	
08:45-09:15	Opening Ceremony	
	Chairperson:	
09:15-10:00	Andrea Ferrari (Cambridge Graphene Centre / University of Cambridge, UK)	Р
	Title to be defined	
10:00-10:30	Jose A. Garrido (ICN2, Spain)	K
	Graphene thin film technology for neural interfaces	
10:30-11:15	Coffee Break / Poster Session	
	Chairperson:	
11:15-11:45	Martin Pumera (CEITEC, Czech Republic)	K
	Nano and microrobots for biomedicine and environment	
11:45-12:15	Jesús Alberto Escarpa Miguel (University of Alcalá, Spain)	K
	Micromotors-based screening biosensing approaches in the frame of the diagnosis of	
	Alzheimer's disease	
12:15-12:35	Maria Guix (University of Barcelona, Spain)	1
	Animating living robots with compliance and biosensing	
12:35-13:05	Samuel Sánchez (IBEC, Spain)	Κ
	Biocompatible chemical nanobots and their applications in biomedicine	
13:05-14:00	Cocktail Lunch (offered by NanoBalkan2025 organisers)	
14:00-14:30	Poster Session I	
	Chairperson	
14:30-15:00	Suna Timur (Ege University, Türkiye)	K
	Smart Nanoplatforms for Multiplexed Diagnostics and Targeted Therapy	••
15:00-15:30	Mariangela Di Donato (CNR-ICCOM, Italy)	Κ
13.00 13.30	Self-assembled nanoparticles for photoinduced and photothermal therapies	
15:30-16:00	Josep Nogués (ICN2, Spain)	Κ
15.50 10.00	Magnetoplasmonic Nanocapsules as Wirelessly Controlled Nanotherapies	IX
16:00-16:30	Javier Ramón-Azcón (IBEC, Spain)	Κ
10.00-10.50	Organs-on-chip with integrated optical sensors: advanced models for evaluation of	K
	potential therapies	
16:30-17:00	·	Κ
10.30-17.00	Nunzio Denora (Università degli Studi di Bari Aldo Moro, Italy)	K
	Advancing Glioma Therapy through Microfluidic Fabrication of Hybrid Liposomes with	
17:00-17:30	Homotypic Targeting Coffee Break / Poster Session	
17:00-17:30		
17:30-18:00	Cocilia limonaz (CSIC, Spain)	V
17.50-16.00	Cecilia Jimenez (CSIC, Spain)	K
10,00 10,20	Smart microsensors for Total Aquatic Process Monitoring and Control	V
18:00-18:30	Fabio Di Francesco (University of Pisa, Italy)	K
10.20 10 15	Next-Generation Biosensing Technologies for the Detection of Infectious Agents	_
18:30-18:45	Federico Vivaldi (University of Pisa, Italy)	0
40 45 40 45	Solid state electrochemical sensor for the detection of hydrogen	
18:45-19:15	Gustau Catalán (ICN2, Spain)	K
	The Bending Boost: Polarization Pathways to Enhanced Photostriction and Photovoltaics	

	TOESDAT SET TEMBER 50, 2	J_J
	Chairperson:	
09:00-09:20	Laura Rodriguez-Lorenzo (INL, Portugal)	- 1
	Plasmonic Hybrid Composites as Excellent Nanoplatform for Surface-Enhanced Raman	
	Scattering-based Sensors	
09:20-09:40	Pilar Rivera Gil (Universitat Pompeu Fabra, Spain)	1
	A SERS-active plasmonic nanosensor-chemometrics platform reveals a biphasic zinc	
	switch that controls breast-cancer metastasis	
09:40-09:55	Víctor Ruiz-Valdepeñas Montiel (Universidad Complutense de Madrid, Spain)	0
03.10 03.33	Electroanalytical Biotools Targeting Globally Non-Canonical G-quadruplex DNA	Ū
	Structures: Towards Accessible Cancer Diagnosis and Therapy	
00.55 10.10	• • • • • • • • • • • • • • • • • • • •	0
09:55-10:10	Marina Serin (EGE university, Turkey)	0
	Determination of DAMP Signals from Immunogenic Cell Death Biomarkers for Anticancer	
10 10 10 20	Drug Development Studies with Nano Electrochemical Aptasensor	
10:10-10:30	Marijana Petković (University of Belgrade, Serbia)	ı
	S-doped carbon dots stimulate overexpression of ribosomal and change expression of	
	proteasomal proteins in HeLa cervical cancer cell line	
10:30-11:00	Coffee Break / Poster Session	
	Chairperson:	
11:00-11:30	Fabiana Arduini (University of Rome "Tor Vergata", Italy)	K
	Paper-based electrochemical (bio)sensors: where we are and where we are going	
11:30-12:00	Arzum Erdem Gürsan (Ege University, Türkiye)	K
	Advancing Nucleic Acid Biosensors based on nanomaterials for electrochemical	
	monitoring of Nucleic Acid interactions	
12:00-12:30	Sibel A. Özkan (Ankara University, Türkiye)	Κ
12.00 12.00	Fabrication of Nanomaterial Embedded Molecularly Imprinted Polymer-Based Sensors	• • •
	and its Electrochemical Applications	
12:30-13:00	Paola Minghetti (Università degli Studi di Milano, Italy)	K
12.30-13.00		N
13:00-14:15	The European Regulatory Framework for Nanomedicines: Is It Suitable for the Future?	
13.00-14.13	Lunch	
11151115	Chairperson:	
14:15-14:45	Winnie Edith Svendsen (DTU, Denmark)	K
	Laser-Scribed Graphene Electrodes for Advanced Electrochemical Biosensing: From	
	Material Properties to Real-World Applications	
14:45-15:05	Alessandro Silvestri (Università Ca' Foscari Venezia, Italy)	ı
	Nanomaterial-based smart inks for electrochemical sensors	
15:05-15:25	Mònica Mir Llorente (IBEC, Spain)	- 1
	Integrated sensors in humanized models to study neurodegeneration	
15:25-15:55	Carsten Sönnichsen (University of Mainz, Germany)	K
	Plasmons for sensors implanted under the skin	
15:55-16:15	Ulku Anik (Mugla Sitki Kocman University, Türkiye)	1
_	Biosensors Based on Infection Mechanism Mimicry at The Core of Diagnostic Systems	
16:15-16:35	Alfredo de la Escosura-Muñiz (University of Oviedo, Spain)	ı
	Use of novel bimetallic nanoparticles as labels in biosensing for applications in clinical diagnostics	•
16:35-17:15	Coffee Break / Poster session	
_ 10,33 17.13	Chairperson:	
17.15 17.45	·	V
17:15-17:45	Neus Gomez Bastus (ICN2, Spain) Disordering by Design: High Entropy Alloy Nanocovetals via Calvania Benjacement	K
	Disordering by Design: High-Entropy Alloy Nanocrystals via Galvanic Replacement	
47 45 40 45	Reactions for Catalytic Applications	
17:45-18:15	Fetah Podvorica (University of Prishtina, Republic Kosovo)	K
	Functionalization of the surfaces of materials with organic moieties using aryl diazonium	
	salts as a radical source	
10.15 10.20		0
18:15-18:30	Sefer Avdiaj (University of Prishtina, Republic of Kosovo)	O
18:15-18:30	The Influence of 3D Printing Type and Structure on the Diffusion and Permeability	O
18:15-18:30		

	WEDNESDAT OCTOBER 01, 20	,
	Chairperson:	
09:00-09:30	Steven Dunn (London South Bank University, UK)	K
	Corona-Boosted Piezocatalysis: Transforming Ferroelectric Materials for Enhanced Water	
	Splitting	
09:30-09:50	Kledi Xhaxhiu (University of Tirana, Albania)	1
	Rapid and low-cost determination of flavonoids and hormones using nanomodified-CPE	
	in combination with ESV	
09:50-10:20	Francesco Ricci (University of Rome, Tor Vergata, Italy)	Κ
03.30 10.20	DNA-Protein Hybrids as Multifunctional Nanodevices	
10:20-11:00	Coffee Break / Poster session	
10:20-11:00		
11 00 11 20	Chairperson:	14
11:00-11:30	Fatih Inci (Bilkent University, Türkiye)	K
	Delving into Molecular Fingerprints for Biosensing Applications	
11:30-12:00	Michal Otyepka (RCPTM, Czech Republic)	K
	Advancing Biosensing with Graphene Derivatives as Efficient Signal Transducers	
12:00-12:20	Lorena Dieguez (INL, Portugal)	ı
	Microfluidic Nanobiosensors for the Analysis of Minimal Residual Disease in Acute Myeloid Leukemia	
12:20-12:40	Bergoi Ibarlucea Canton (Tecnalia, Spain)	ı
	Antibody-nanocluster Biohybrids and Multimodal Wearable Biosensors for Cost-Effective	
	and Personalized Health Monitoring)	
12:40-12:55	Hoi Tung Lam (University of Exeter, UK)	0
	Sustainable and Scalable 2D Materials for Wearable Self-Powered Sensing	
12:55-13:10	Albana Veseli (University of Prishtina, Republic of Kosovo)	0
	Electro-Sensing of Herbicides Enhanced by Nanomaterials in Environmental Samples	
13:10-13:25	Toufic El Beaino (CIHEAM BARI, Italy)	0
	Development of High-Affinity Aptamers for Xylella fastidiosa Detection Using	
	Comparative SELEX Strategies	
13:25-14:30	Lunch	
	Chairperson:	
14:30-15:00	·	K
14:30-15:00	Sabato D'Auria (CNR, Italy)	K
	Sabato D'Auria (CNR, Italy) The use of proteins as a new avenue for the design of optical biosensors	K
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THURSDAY OCTOBER 02, 2025

	THORSDAT OCTOBER 02, 20	,
	Chairperson:	
09:00-09:30	Yasuaki Einaga (Keio University, Japan)	K
	Electrochemical Application of Boron-doped Diamond Electrodes	
09:30-10:00	Jordi Sort Viñas (UAB/ICREA, Spain)	K
	Magneto-ionics for Low-power Memory, Data Security and Advanced Computing	
10:00-10:15	Antonios Makridis (Aristotle University of Thessaloniki, Greece)	0
	Magnetite-Gold Hybrid Nanoparticles for Dual-Modality Biosensing and Targeted Therapy	
	in Neurodegenerative Disorders	
10:15-11:05	Coffee Break / Poster Session	
	Chairperson:	
11:05-11:35	Aristides Bakandritsos (Palacky University of Olomouc, Czech Republic)	K
	Low-Dimensional Functional Materials for Catalysis and Energy Storage	
11:35-12:05	Pedro Gómez-Romero (ICN2, Spain)	K
	The nano-approach to hybrid energy storage	•••
12:05-12:20	Tariq Sajjad (London South Bank University, UK)	0
12.05 12.20	Mesoporous WO₃ Nanoplates: Smart Materials for Integrated Photonic Energy Storage	Ü
	and Catalysis	
12:20-12:40	Hirotomo Nishihara (IMRAM, Tohoku University, Japan)	1
12.20 12.40	Three-dimensional mesoporous graphene for energy applications	'
12:40-13:00	Kostas Rogdakis (Hellenic Mediterranean University, Greece)	
12.40-13.00	Printable memristive solar cells based on Lead-free perovskites for self-powered artificial	'
	·	
12.00 12.15	synapses and neurons	0
13:00-13:15	John Buckeridge (London South Bank University, UK)	0
12:15 14:20	Determining the thermodynamics of disorder at the nanoscale using quantum computing	
13:15-14:30	Lunch	
44 20 45 00	Chairperson:	14
14:30-15:00	Francesco Trotta (University of Turin, Italy)	K
	The two aspects of cyclodextrin polymers: exploring soluble and insoluble worlds through	
	synthetic routes, characterization and applications.	
15:00-15:30	Gianluca Fiori (University of Pisa, Italy)	K
	Ultra-Conformable Circuits Based on MoS₂ Transistors and High-Precision Printing	
	Technologies	
15:30-15:50	Suela Kellici (London South Bank University, UK)	ı
	Design–Synthesis–Performance Framework for Advanced Nanomaterials using	
	Continuous Flow	
15:50-16:20	Coen de Graaf (ICREA/URV, Spain)	K
	Many-electron band structures based on Non-Orthogonal Configuration Interaction to	
	study exciton dispersion and charge transport	
16:20-16:40	Sachiko Matsushita (Institute of Science Tokyo, Japan)	- 1
	Redox reaction of thermally excited carriers: Semiconductor-sensitized thermal cell	
16:40-17:20	Coffee Break / Poster Session	
17:20-17:40	Tomoko Shimizu (Keio University, Japan)	I
	Characterization of Organic Porous Thin Films Fabricated at the Air/Liquid Interface Using	
	Atomic Force Microscopy and Nano-FTIR Spectroscopy	
17:40-18:10	Dritan Siliqi (CNR, Italy)	K
	Unveiling Complexity: Small-Angle X-ray Scattering (SAXS) as a Powerful Tool in	
	Bioscience — from Nanomaterials to Biomolecules	
18:10-18:30	Hiroaki Onoe (Keio University, Japan)	1
	Hydrogel-based sealed microwell array for analyzing extracellular vesicles secreted from single cells	
	, , , , ,	
18:30-19:00	Pinar Kara (Ege University, Türkiye)	
18:30-19:00		
18:30-19:00	Pinar Kara (Ege University, Türkiye)	

THURSDAY OCTOBER 02, 2025

	PARALLEL SESSION - PhD Students	
	Chairperson:	
14:30-14:40	Meriem Gouasmi (University of Turin "UNITO", Italy) Controlled Synthesis of Graphitic Carbon Nitride (g- C_3N_4) via Melamine Polymerization	0
14:40-14:50	Using Experimental Design Carla Arroyo Rivera (Institute for Bioengineering of Catalonia, Spain) Development of an Electrochemical Multiparametric Sensor for Continuous Monitoring of Cardiovascular Biomarkers	0
14:50-15:00	Kerem Tok (Ege University, Turkey) Development of CdSe/ZnS-QD protein/peptide coronas from pleural fluids for targeted biomedical use	0
15:00-15:10	Konstantina Kazeli (Aristotle University of Thessaloniki, Greece) DNA aptamer gold-magnetic nanoconjugates for the detection of Alzheimer's disease biomarkers	0
15:10-15:20	Yuki Shimizu (Keio University, Japan) Production of Carbon Monoxide in One-Chamber Reactor Using Boron-Doped Diamond Electrodes	0
15:20-15:30	Kohei Shibano (Keio University, Japan) Fabrication of Metal-Supported Diamond Electrodes for Direct Formic Acid Fuel Cells	0
15:30-15:40	Akant Sengül (Brandenburg University of Technology, Germany) Optical investigation of Polymer-Functionalization of TiN-Nanohole-Arrays for Integrated Biosensor Applications	0
15:40-15:50	Gulsu Keles (Ankara University, Turkey) Fabrication and Characterization of a Bimetallic Nanomaterial Modified Aptasensor for Organophosphorus Pesticide Sensing	0

FRIDAY OCTOBER 03, 2025

	FRIDAT OCTOBER 03, 20	023
	Chairperson:	
09:00-09:30	Giulia Palermo (The University of California Riverside, USA)	K
	Deep Learning and Computational Modelling for the Next Generation of CRISPR	
	Technologies	
09:30-09:50	Marcel Langer (EPFL, Switzerland)	- 1
	Recent developments in machine learning force fields: Foundation models, symmetries,	
	constraints, and long-range interactions	
09:50-10:10	Chiara Zanardi (Ca´ Foscari University of Venice, Italy)	1
	Unusual amperometric detection of ions using machine learning applied to	
	hexacyanoferrate and graphene oxide modified electrodes	
10:10-10:40	Coffee Break	
	Chairperson:	
10:40-11:10	Gianni Ciofani (IIT, Italy)	K
	Light-Responsive Biodegradable Nanotransducers for Cellular Modulation: Polydopamine	
	Nanoparticles as a Promising Platform for Healthcare Applications	
11:10-11:40	Ilaria Fratoddi (Sapienza University of Rome, Italy)	K
	Tuneable Interfaces in Single-Metal and Hybrid Nanoparticles: A Toolbox for Adaptive	
	Sensing and Therapeutics	
11:40-12:00	Genc Basha (University of British Columbia, Canada)	I
	Stimulation of morphological changes of Lipid Nanoparticle Formulations of mRNA Leads	
	to Improved Transfection Potency	_
12:00-12:15	Ardian Jusufi (ETH and UZH Institute for NeuroInformatics, Switzerland)	0
	Biomimetic Traction-Enhancing Scale Arrays enable Soft Robot Transitions by Offloading	
12.15 12.20	Computation into Morphology	
12:15-13:30	Lunch	
13:30-14:00	Chairperson:	K
13.30-14.00	Ilaria Ciofini (Chimie ParisTech - PSL, France) Title to be defined	K
14:00-14:30	Raik Grünberg (KAUST, Saudi Arabia)	K
14.00-14.50	Multi-enzyme MOF nanoreactors transplant a drug biosynthesis pathway into cells	K
14:30-15:00	Mariana Medina Sanchez (CIC nanoGUNE, Spain)	K
14.50 15.00	Rolled-Up Nanomembrane Sensors: Enabling Multi-Scale Monitoring from Molecules to	IX.
	Embryos	
15:00-15:20	Filiz Kuralay (Hacettepe University, Türkiye)	1
13.00 13.20	Nano/Micromaterials for Sensing and Drug Delivery	•
15:20-15:35	Flamur Sopaj (University of Prishtina, Republic of Kosovo)	0
	Characterisation of graphite fibre anode used for organic pollutants removal from	-
	aqueous media	
15:35	CLOSING & NANOBALKAN2026 ANNOUNCEMENT	