

## **TENTATIVE PROGRAM**

Last Update - November 24, 2025

## **Tuesday December 02, 2025**

08:00-08:45		
	Registration	
08:45-09:00	Opening Ceremony	
09:00-09:30	Samuel Sanchez (IBEC, Spain)	
	Self-propelled nanobots crossing biological barriers	K
09:30-10:00	Gianni Ciofani (IIT, Italy)	
	Nanomedicine in space: Models and countermeasures	K
10:00-10:30	Giuseppe Battaglia (IBEC, Spain)	
	Nanoscale transport at the blood brain barrier: mechanism and therapy development	K
10:30-11:15	Coffee Break, Poster Session & Exhibition	Ι.
11:15-11:35	Maria Maddalena Calabretta (University of Bologna, Italy) 3D models for biosensing exploiting bioluminescence detection	l
11:35-11:55	Francesco Enrichi (University of Verona, Italy)	1
	Luminescent nanostructured materials for biological applications and sensing	
11:55-12:10	Elisabet Xifre Perez (URV, Spain) Low-cost nanopatterned SERS substrates for very low concentration detection of antibiotics	0
12:10-12:40	Alfredo de la Escosura-Muñiz (University of Oviedo, Spain)	К
	Nanochannels in biosensing: a journey from stochastic sensing to diagnostic applications	'`
12:40-13:10	Mari Carmen Estévez (ICN2, Spain)	
	Nanophotonic Biosensing: Engineering Sensitive, Rapid, and Multiplexed Platforms for	К
	Decentralized Clinical Diagnostics	
13:10-13:25	<b>Tiago Rafael Marques Pereira</b> (International Iberian Nanotechnology Laboratory, Portugal) Flexible Electrolyte-Gated Graphene FET Arrays Towards Implantable Neurochemical Sensing	0
13:25-14:30	Cocktail Lunch - Poster Session & Exhibition	
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14:30-15:00	Poster Session & Exhibition	
14:30-15:00 15:00-15:30	Poster Session & Exhibition  Danny Porath (The Hebrew University of Jerusalem, Israel)	K
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## Wednesday December 03, 2025

Description		110011000101 00, 2020	
regenerative medicine  09:15-09:35  Paula Ferreira (University of Aveiro, Portugal) Smart Biomaterial Scaffolds for Tumour Suppression and Bone Tissue Regeneration  09:35-09:55  Mariana ionita (University Politehnica of Bucharest, Romania) Manufacturing approaches for hierarchical scaffolds for functional bone tissue regeneration  09:55-10:15  María Concepción Serrano López-Terradas (ICMM/CSIC, Spain) Reduced graphene oxide scaffolds for neural repair at the injured spinal cord, progress from the Piezo4Spine project  10:15-11:00  Coffee Break, Poster Session & Exhibition  11:00-11:30  Vincent Bouchiat (Grapheal, France) Monolayer graphene on parylene for biology and Medicine: from lab to medical devices  11:30-11:50  Jose De la Cruz (INBRAIN Neuroelectronics, Spain) Graphene-Based Neurotechnology for Next-Generation Brain Interfaces  11:50-12:10  Joan Guerreiro (IPLEMMED / LaBRISE/ISEP, Portugal) Innovation at the Interface of Nanotechnology and Diagnostics  12:10-12:30  Valerio Pini (Mecwins, Spain) AVAC: an ultrasensitive and versatile plasmonic platform for digital biomarker detection and nanoscale metrology  12:30-13:00  Gustavo S. Luengo (L'Oréal, France) A Closer look at the Skin's Surface Manostructure and Barrier Function in Cosmetics  13:00-13:20  Miguel Vilaplana (GraphenicaLab, Spain) How Al is already transforming my company and what to expect? A manager point's of view of the use of Al in a R&D-based company  14:50-15:20  Manual Laromaine (ICMAB-CSIC, Spain) C. c. elegans: a window to bridge nanotechnology and biology  Uluis F. Marsal (Universitat Rovira i Virgili, Spain) From Structure to Function: Nanoporous Anodic Alumina for Cutting-Edge Biomedical Applications  15:20-15:35  Asier Rodriguez Muguruza (Institut de Ciència de Materials de Barcelona (ICMAB-CSIC), Spain) Chitosan-containing composites for biomedical applications  16:05-16:05  Mimoza Basholli Salihu (University of Prishtina, Albania) Nanobiotics as sustainable nanoplatforms to overcome antimicrobial resistance and promote green nanom	09:00-09:15	Romania)	0
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Monolayer graphene on parylene for biology and Medicine: from lab to medical devices  11:30-11:50  Jose De la Cruz (INBRAIN Neuroelectronics, Spain) Graphene-Based Neurotechnology for Next-Generation Brain Interfaces  11:50-12:10  Joana Guerreiro (IPLEXMED / LabRISE/ISEP, Portugal) Innovation at the Interface of Nanotechnology and Diagnostics  41:10-12:30  Valerio Pini (Mecwins, Spain) AVAC: an ultrasensitive and versatile plasmonic platform for digital biomarker detection and nanoscale metrology  12:30-13:00  Gustavo S. Luengo (L'Oréal, France) A closer look at the Skin's Surface Nanostructure and Barrier Function in Cosmetics  Miguel Vilaplana (GraphenicaLab, Spain) How Al is already transforming my company and what to expect? A manager point's of view of the use of Al in a R&D-based company  13:20-14:30  Lunch  14:30-14:30  Anna Laromaine (ICMAB-CSIC, Spain) C. elegans: a window to bridge nanotechnology and biology  14:50-15:20  Lluis F. Marsal (Universitat Rovira i Virgili, Spain) From Structure to Function: Nanoporous Anodic Alumina for Cutting-Edge Biomedical Applications  15:20-15:35  Asier Rodriguez Muguruza (Institut de Ciència de Materials de Barcelona (ICMAB-CSIC), Spain) Chitosan-containing composites for biomedical applications  15:35-15:50  Hélène Joisten (SPINTEC- UGA / CNRS / CEA-Grenoble, France) Magnetic Micro-Nano- Particles for Mechanobiology, towards future Biomedical Applications  15:50-16:05  Javier Reguera (Universidad de Valladolid, Spain) Heterogeneous Surface Coatings Engineering by Stealth-like Biomimicking  Mimoza Basholli Salihu (University of Prishtina, Albania) Nanobiotics as sustainable nanoplatforms to overcome antimicrobial resistance and promote green nanomedicine  Cristina Parisi (University of Catania, Italy) Light-Triggered Nitric Oxide –Releasing Hyaluronic Acid Derivatives and Their Application in Skin Delivery  16:35-77:05  Noelia Soto Gomez (Instituto de Biofisika, Spain) The protein corona of nanoparticles: structure responsiveness upon corona formation.  17:15-17:25	10:15-11:00	Coffee Break, Poster Session & Exhibition	
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17:25-17:35	Nicholas Orlandini (Nanotechnology Institute - CNR NANOTEC, Italy) Digoxin-loaded polymeric nanoparticles as an immunogenic cell death inducer in cancer cells	0
17:35-17:45	Chloé Bazile (Toulouse Cancer Research Center, France) Targeting tumor associated macrophages (TAM) with vectorized magnetic nanoparticles for anticancer therapies	0
17:45-17:55	Angela Agaësse (INSERM, France) Magnetic Hyperthermia and Mechanical Ablation Induce an Anti-Tumour Immune Response in Pancreatic Adenocarcinoma	0
17:55-18:05	Maha Alhosani (Khalifa University, United Arab Emirates) Functionalized carbon dots interactions with the immune system from imaging to biomedical applications	0
18:05-18:15	Ruben Garcia-Costas (Institut de Ciència de Materials de Barcelona (ICMAB-CSIC), Spain) MRI active nanoparticles: towards a future of metal-free contrast agents	0
18:15-18:25	Olla Khatib (Khalifa University, United Arab Emirates)  MXene nanomaterials as a new frontier in immunomodulation for human health: from earth to space explorations	0
18:25-18:35	<b>Ludovica Rizzo</b> (CNR-NANOTEC/University of Salento, Italy)  Development of advanced genetic tools in combination with nanovectors for T-cell engineering	0
18:35-18:45	<b>Liqiong Li</b> (Institut de Ciència de Materials de Barcelona (ICMAB-CSIC), Spain) Electrospun PVA-Chitosan Nanofiber composites: Molecular Weight-Dependent Antibacterial and Wound-Healing Performance	0

Thursday December 04, 2025

Muling Zeng (Institut de Ciència de Materials de Barcelona (ICMAB-CSIC), Spain)   Engineered CeO2-Based Nanozymes for Multifunctional Oxidative Stress Regulation and Therapeutic Applications   O A pathway toward clinically-oriented polymeric nanovectors for cancer immunotherapy   O A pathway toward clinically-oriented polymeric nanovectors for cancer immunotherapy   O Nanotoxicity Assessment in Freshwater Planarians: A Multilevel Approach   Mariem Naffeti (Institute of Polymer Science and Technology (ICTP), Spain)   O Bismuth-Enhanced Silicon Nanowires: Exploring Their Antimicrobial Potential   O Nanobiosensor for imported malaria diagnostic and management   O Nanomechanical resonators for multiplexed physical characterization of cells and other biological analytes   O Navier Rovira Clavé (IBEC, Spain)   O Navier Rovira Clavé (IBEC, Spain)   O Navier Rovira Clavé (IBEC, Spain)   O Nano-PERLS: Brilliant Tools for Biomedical Imaging and Therapy in Deep Tissues   O Nano-PERLS: Brilliant Tools for Biomedical Imaging and Particle Tracking applications   O Scanning Dielectric Microscopy Applied to Nanoscale Biosamples: beyond electrical nanocharacterization   O Scanning Dielectric Microscopy Applied to Nanoscale Biosamples: beyond electrical nanocharacterization   O Concluding remarks   O Nano-PERLS: Brilliant Tools for Biomedical Imaging and Particle Tracking applications   O Scanning Dielectric Microscopy Applied to Nanoscale Biosamples: beyond electrical nanocharacterization   O Concluding remarks   O Concluding rem		Tharday Boombor 01, 2020	
A pathway toward clinically-oriented polymeric nanovectors for cancer immunotherapy  09:30-09:45	09:00-09:15	Engineered CeO2-Based Nanozymes for Multifunctional Oxidative Stress Regulation and	0
Nanotoxicity Assessment in Freshwater Planarians: A Multilevel Approach  0945-10:00	09:15-09:30		0
Bismuth-Enhanced Silicon Nanowires: Exploring Their Antimicrobial Potential  10:00-10:20 Claudio Parolo (ISGlobal/URV, Spain) Nanobiosensor for imported malaria diagnostic and management  10:20-11:20 Coffee Break, Poster Session & Exhibition  11:20-11:35 Alberto Martín-Pérez (TU Delft, The Netherlands) Nanomechanical resonators for multiplexed physical characterization of cells and other biological analytes  11:35-11:50 Álvaro Cano Tortajada (IMN-CSIC, Spain) Multiparametric quantification of bacterial cells using digital holographic microscopy  11:50-12:10 Xavier Rovira Clavé (IBEC, Spain) Tissue and subnuclear neighborhoods uncovered by high-resolution, multiplexed protein imaging  12:10-12:30 Aurélie Bessière (CNRS, France) Nano-PERLs: Brilliant Tools for Biomedical Imaging and Therapy in Deep Tissues  12:30-12:50 Juan Pellico (ICMAB/CSIC, Spain) Advanced Nanomaterials for Medical Imaging and Particle Tracking applications  12:50-13:20 Gabriel Gomila (IBEC, Spain) Scanning Dielectric Microscopy Applied to Nanoscale Biosamples: beyond electrical nanocharacterization	09:30-09:45	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0
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