

## **TENTATIVE PROGRAM**

Last Update - November 23, 2022

## **Tuesday November 22, 2022**

	<u> </u>	
08:00-08:45	Registration	
08:45-09:00	Opening Ceremony	
09:00-09:30	Samuel Sanchez (IBEC, Spain)	K
	Nanobots going in vivo	-
09:30-10:00	Tania Patiño Padial (Eindhoven University of Technology, The Netherlands)	K
	Bioengineering enzyme-powered nanobots: towards programmable design and	
	functionality	
10:00-10:20	Juan Fraire (IBEC, Spain)	ı
	Light-Triggered Vapor Nanobubbles and Nanomotors for Drug Delivery Applications	
10:20-11:00	Coffee Break, Poster Session & Exhibition	
11:00-11:30	Mariana Medina Sánchez (IFW Dresden, Germany)	K
	Biomedical applications of sperm-hybrid micromotors	
11:30-12:00	César Rodriguez-Emmenegger (IBEC, Spain)	K
	Using Nature's engineering principles to design biointerfaces and synthetic cells for	'`
	nanomedicine	
12:00-12:15	Anna Bakenecker (Institute for Bioengineering of Catalonia (IBEC), Spain)	0
	Evaluating the collective dispersion of magnetic-enzymatic nanomotors	
12:15-13:00	Poster Session & Exhibition	
13:00-14:00	Cocktail Lunch - Poster Session & Exhibition	
14:00-14:30	Kostas Kostarelos (The University of Manchester, UK)	K
	Graphene oxide nanoscale platforms for deep tissue translocation within the tissue	
	microenvironment of glioblastoma	
14:30-15:00	Vincent Bouchiat (Grapheal, France)	K
	Monolayer Graphene on polymer as a material for combining therapy and diagnostic in-	'`
	vivo: from basic science to medical applications	
15:00-15:20	Neus Lozano (ICN2, Spain)	ı
	How to Transform a Novel 2D Nanomaterial in 'Medical Grade'	
15:20-15:50	Giuseppe Battaglia (IBEC, Spain)	K
	The phenotypic association theory and its application in nanomedicine design	
15:50-16:05	Daniel Gonzalez Carter (IBEC, Spain)	О
	A new paradigm to identify brain targeting peptides	
16:05-16:20	Elisabet González Mira (Institute of Materials Science of Barcelona, CSIC, Spain)	О
	Advancing a new nanomedicine for Fabry disease treatment towards clinical translation	
16:20-16:35	Zeynep Firtina Karagonlar (Izmir University of Economics, Turkey)	О
	Antibiofilm and antibacterial activity of Ag-intercalated Tm3+/Er3+ co-doped layered	
	perovskites and their exfoliated 2D nanosheets	
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16:35-16:50	F. Pinar Gordesli Duatepe (Izmir University of Economics, Turkey)	0
16:35-16:50	F. Pinar Gordesli Duatepe (Izmir University of Economics, Turkey) Hydrogen-Bonding and Long-Range Interactions Involved in the Initial Attachment of Biofilm-Dispersed Escherichia coli and Bacillus subtilis	0

17:20-17:50	Danny Porath (The Hebrew University of Jerusalem, Israel)	K
	Molecular Electronics with DNA towards DNA Detection	
17:50-18:10	Marilena Hadjidemetriou (University of Manchester, UK)	1
	Nano-omics: nanotechnology-enabled harvesting of blood-circulating biomarkers	
18:10-18:25	Juan Elezgaray (CRPP, CNRS UMR 5130, France)	
	Detection of short nucleotides with DNA nanopores	0
21:00	Conference Dinner - Restaurant CAN CORTADA, Barcelona - Spain - More info	
	Map - 5 minutes walking from the underground stop "Valldaura" (green line nº03)	

Wednesday November 23, 2022

Utal Alfonta (Ben-Gurion University, Israel)   Genetic code expansion in biosensing and tissue engineering   Nanoengineered Surfaces for modulating cellular responses and sensing applications   1		Wednesday November 25, 2022	
Genetic code expansion in biosensing and tissue engineering  09:30-09:50  Akash Bachhuka (University Rovira i Virgili, Spain) Nanoengineered Surfaces for modulating cellular responses and sensing applications  10:05-10:20  Alejandro Hernández-Albors (ITENE, Spain) Nanobiosensor devices for environmental quality assessment as containment systems  Sara Gullace (Université de Strasbourg: ISIS, France) MoS2 Defect Healing for High-Performance Sensing of Polycyclic Aromatic Hydrocarbons and Mercury Ions  Coffee Break, Poster Session & Exhibition  Parallel Session Phd Student I (Topics: Bio-Inspired nanotechnologies, Bioelectronics, Drug Delivery, Integrated Systems / Sensors)  11:00-11:10  Barbara Borges Fernandes (Institute for Bioengineering of Catalonia (IBEC), Spain) Porated liposomes: towards new nanomotors model  11:10-11:20  Marc Navarro Pons (Institute of Microelectronics of Barcelona (IMB-CNM, CSIC), Spain) Novel piezoelectronic microdevice for electrical cell stimulation  11:20-11:30  Laura Lefaix Fernández (Microelectronics nistitute of Darcelona (IMB-CNM, CSIC), Spain) Different size microdevices with nanostructured ZnO integrated for electrical cell stimulation  11:30-11:40  Daniel Rodríguez Ajamil (Tel Aviv University, Israel) Design of targeted PLGA-SO3 Nanoparticles encapsulating PARP and PD-L1 Inhibitors for BRCA-mutated breast cancer therapy Feng Li (University of Vienna, Austria) Inhaled amorphous drug nano- particle formulations of BTZ043 to improve tuberculosis treatment  11:50-12:00  Fatemeh Rajabasadi (IFW dresden, Germany) 40-printed multifunctional microcarriers for passive and active cargo delivery  Marta Delga Fernandez (Catalan Institute of Nanoscience and Nanotechnology, Spain) Towards a universal biosensing platform based on graphene/pyrene surfaces for neurotransmitters  12:10-12:20  Maria Navalón (Quimic de Sarrià (IQS), Universitat Ramon Llull (URL), Spain) Taloring carriers for specific applications by unveiling the role of individual components in pBAE/polyynucleotide polyplexes: o	09:00-09:30	Lital Alfonta (Ben-Gurion University, Israel)	K
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Dioactivity of Foot-ob-loaded intersalies stellization with gailing of beta radiation		Bioactivity of PDGF-BB-loaded NLCs after sterilization with gamma or beta radiation	

11:10-11:20	Massimo Urban (Catalan Institute of Nanoscience and Nanotechnology (ICN2), Spain) Upgrading nanobiosensing platforms: comparison between different inkjet printed	0
11:20-11:30	biosensors for detection of Neutrophil Gelatinase Associated Lipocalin-2 (NGAL)  José Marrugo-Ramírez (Catalan Institute of Nanoscience and Nanotechnology (ICN2),	0
11.20 11.00	Spain) Nanobiosensing of Small Molecules: Challenges and Prospects for Molecular Imprinting	
11:30-11:40	Gabriel Maroli (Catalan Institute of Nanoscience and Nanotechnology (ICN2), Spain) Challenges of printing on Mussel-Inspired free-standing films as Artificial biosensing Skin	0
11:40-11:50	Celia Fuentes Chust (Institut Català de Nanociència i Nanotecnologia, Spain) Aptamer displacement Lateral Flow assay for Phenylketonuria monitoring	0
11:50-12:00	Gabriela Guedes (CIC biomaGUNE, Spain) Protein-stabilized nanomaterials as novel MRI contrast agents	0
12:00-12:10	Ivana Cavaliere (Catalan Institute of Nanoscience and Nanotechnology (ICN2), Spain) Encapsulation of magnetic nanocubes in core shell polymeric nanoparticles for their application in hyperthermia	0
12:10-12:20	Clara Baldari (Universita´ del Salento, Italy)	0
10.00.10.00	Biomimetic Nanoparticles for Cancer Target Immunotherapy	
12:20-12:30	Cláudio Ferro (University of Lisbon, Portugal)  Anticancer properties of selenium nanoparticles encapsulated by oncolytic virus capsids	0
	Plenary	
12:30-12:45	Shabnam Nisha (Palacký University, Czech Republic)  Effect of CeO2 NPs of varying Ce3+ and Ce4+ content on Chlamydomonas reinhardtii under high light stress	0
12:45-13:00	Salvador Moncho Escriva (ProtoQSAR , Spain) NanoQSAR models on the toxicity of quantum dots	0
13:00-13:15	Özge Sağlam (İzmir University of Economics, Turkey) In Vitro Cytotoxicity of Upconverting Tm/Er Co-Doped Layered Perovskite and their Nanosheets	0
13:15-13:30	Lucila Maiorano (University of Alicante, Spain) Guefoams: A new concept of filter media for water bacterial removal	0
13:30-14:45	Lunch	'
14:45-15:15	Lluis F. Marsal (Universitat Rovira i Virgili, Spain) Tamm resonances in nanoporous anodic alumina photonic structures for sensing applications	K
15:15-15:45	Beatriz Prieto-Simon (ICREA/URV, Spain) Layered carbon-stabilised porous silicon nanostructures to build electrochemical sensors	K
15:45-16:05	Giulio Rosati (ICN2, Spain) Inkjet printing of nanobiosensors: limits, challenges, and opportunities	I
16:05-16:20	Ondrej Kaman (FZU - Institute of Physics of the Czech Academy of Sciences, Czech Republic) Gold nanoshells with silica-coated magnetic cores for multimodal imaging and sensing	0
16:20-16:50	Dekel Rosenfeld (Tel Aviv University, Israel)  Controlling cell signaling using magnetic nanoparticles and alternating magnetic fields	K
16:50-17:30	Coffee Break, Poster Session & Exhibition	'
17:30-18:00	Jose Antonio Garrido (ICREA/ICN2, Spain) Opportunities and Challenges of Graphene Neurotechnology in Neuroscience and Medical Applications	К
18:00-18:30	Zvi Yaari (The Hebrew University of Jerusalem, Israel)  Al-Guided Optical Sensors for The Early Detection of Gynecologic Cancers	К
18:30-18:45	Loretta del Mercato (Institute of Nanotechnology (CNR-Nanotec), Italy)	0
	3D sensing platform for single cell extracellular pH mapping in time and space: a pre- clinical model to study tumor microenvironment and drug screening	

18:45-19:05	Attilio Marino (IIT, Italy) Innovative 3D microfluidic brain tumor-on-a-chip systems: design, characterization, and preliminary testing with chemotherapy drug-loaded nanocarriers	ı
19:05-19:20	Ilaria Elena Palamà (CNR-Institute of Nanotechnology, Italy)	0
	Safe and efficient modular nanovectors for gene/drug delivery in precision medicine	

Thursday November 24, 2022

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09:00-09:20	Behnam Akhavan (University of Newcastle, Australia)	
	Plasma Engineered Nanomaterials for Bio and Medical Applications	'
09:20-09:40	Inma Ratera (ICMAB, Spain)	1
	Radical-based Nanoparticles with Advanced Optical Properties for Biological Applications	
09:40-09:55	Margarita Apostolova (Roumen Tsanev Institute of Molecular Biology - BAS, Bulgaria)	0
	Novel nanostructured materials accelerating osteogenesis	
09:55-10:10	Iris Batalha (Institute for Bioengineering of Catalonia (IBEC), Spain)	0
	Return of the Jedi: Fighting Antimicrobial Resistance with Nanobiotics	
10:10-10:45	Coffee Break, Poster Session & Exhibition	
10:45-11:00	Ana Belen Davila Ibañez (Joint Unit Roche-Chus, Spain)	0
	Novel application of lipid nanoemulsions in breast cancer	
11:00-11:15	Vega Lloveras Monserrat (ICMAB CISC: Institut de Ciencia de Materials de Barcelona,	0
	Spain)	
	MRI tumour detection using metal-free radical dendrimers as contrast agents	
11:15-11:30	Annalisa Calo (IBEC-UB, Spain)	0
	Spatial mapping of biophysical properties in human cells and tissues by scanning probe	
	microscopy (SPM)	$\perp$
11:30-11:45	Rosario Núñez (Instituto de Ciencia de Materiales, Spain)	0
	Boron clusters-based systems for molecular imaging and BNCT	$\perp$
11:45-12:15	Aurelie Bessiere (University of Montpellier, France)	K
	PERsistent Luminescence (PERL) nanoparticles for small animal in vivo bioapplications	
12:15-12:30	Mathilde Menard (ICGM, France)	0
	Nanocasting template synthesis of porous persistent luminescent nanoparticles for PDT	
12:30-13:00	Moran Frenkel-Pinter (The Hebrew University of Jerusalem, Israel)	К
	Structure-Function Guided Fabrication of Biodegradable RNA-Binding Polymers	
13:00-13:15	Andreu Blanquer Jerez (Universitat Autònoma de Barcelona, Spain)	0
	Piezoelectric membranes to enhance skin regeneration	$\perp$
13:15-13:45	Daniel Ruiz-Molina (ICN2-CSIC, Spain)	K
	Intranasal Administration of Novel Nanocarriers for Glioblastoma treatment	
13:45	Concluding remarks	