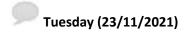


TENTATIVE PROGRAM (as of 24/11/2021)

P: Plenary / K: Keynote lecture / I: Invited Lecture / O: Oral contribution



08:00 – 09:00: Registration 09:00 – 09:15: Opening Ceremony

09:15 – 09:30: Adolfo Morais Ezquerro (Basque Government, Spain) The Basque Country IKUR Strategy 2030 in Quantum Technologies 09:30 – 10:15: Ignacio Cirac (Max Planck Institute of Quantum Optics, Germany) Quantum computers and many-body systems	Ρ
10:15–11:15: Coffee Break / Poster Session / Exhibition	
11:15 – 12:00: Tommaso Calarco (Forschungszentrum Jülich, Germany) The European Quantum initiative: from a flagship to a fleet	Р
12:00 – 12:45: Andrea Ferrari (Cambridge Graphene Centre, University of Cambridge, UK) The Graphene Flagship: The First 10 years	Р
12:45 – 13:00: Yolanda de Miguel (Tecnalia, Spain)	
Nanotechnology at the Basque Research and Technology Alliance (BRTA)	
13:00 – 14:00: Cocktail lunch (offered by Imaginenano2021)	
14:00 – 14:30: Poster session	
Chairperson: M. Lucia Curri (University of Bari, CNR, Italy)	
14:30 – 15:00: Arben Merkoci (ICREA / ICN2, Spain)	К
Lateral flow paper-based nanobiosensors for diagnostics applications	
15:00 – 15:30: Elena Aznar (UPV/CIBER BBN, Spain)	К
Communication at the nanoscale. Nanoparticles that "talk" to one another	
15:30 – 16:00: Danny Porath (The Hebrew University of Jerusalem, Israel)	К
Surprising Charge Transport in DNA	
16:00 – 17:30: Coffee Break / ePoster Session / Exhibition	
Chairperson: Flena Aznar (LIDV/CIBER BBN, Spain)	

Chairperson: Elena Aznar (UPV/CIBER BBN, Spain)17:30 – 17:45: Fernando Jimenez Urbanos (Fondation ciRFC, France)OMoS2 Field-Effect Transistors for Ion Sensing: Ultrasensitive Hg2+ DetectionO17:45 – 18:00: Bahareh Khezri (University of Chemistry and Technology Prague, Czech Republic)O2D-based nano/microrobots: Towards Biomedical and Environmental ApplicationsO18:00 – 18:15: Marta Clara Larríu Díaz (Nadetech Innovations, Spain)OFabricate multiphase nanocomposites with nanofibers combining electrospinning and 3D printing technologiesO

Wednesday (24/11/2021)

Chairperson: Roy Beck (Tel Aviv University, Israel) 09:00 – 09:30: M. Lucia Curri (University of Bari, CNR, Italy) Κ Colloidal nanomaterials for life science: tailoring surface chemistry for old, new and emerging functions 09:30 – 09:45: M. Ali Aboudzadeh (CNRS, University Pau & Pays Adour, France) 0 Synthesis and Colloidal Properties of Gold Nanoparticles Functionalized with Cyclic Poly(ethylene oxide)s 09:45 – 10:00: Philip Schaefer (neaspec GmbH, Germany) 0 nano-FTIR and correlation nanoscopy for organic and inorganic material analysis 10:00 - 10:15: Maadhav Kothari (Zeiss Microscopy, UK) 0 Imaging and understanding metal organic frameworks using advanced scanning electron microscopy techniques 10:15 – 10:30: Cristina Arimany-Nardi (NanomedSpain / IBEC, Spain) 0 Nanomed Spain, the Spanish Technological Platform for Nanomedicine: promoting public-private collaboration, innovation and clinical translation of nanomedicine in Spain

10:30–11:30: Coffee Break / Poster Session / Exhibition

Chairperson: Cristina Arimany-Nardi (NanomedSpain / IBEC, Spain)	
11:30 – 11:50: Jordi Llop (CIC Biomagune, Spain)	Т
Labelled Self-propelled nanosystems: towards improved (nano)theragnostic agents	
11:50 – 12:05: Eduardo Gil-Santos (Intituto de Micro y Nanotecnología (IMN-CNM, CSIC), Spain)	0
Optomechanical detection of single bacterium mechanical modes	
12:05 – 12:20: Aritz García Arribas (Instituto Biofisika (UPV/EHU, CSIC), Spain)	0
Lipid-gold clusters (AuroraTM): improving gold nanoparticles for lipid membrane studies	
12:20 – 12:35: Juan Manuel Arango (Instituto de Biofisika, Spain)	0
Synthesis and characterization of amphiphilic fluorinated polymers for phase transfer solubilization of	
hydrophobic gold nanoparticles	
12:35 – 12:50: Luis Antonio Panes Ruiz (TU Dresden, Germany)	0
Breath-level detection of hydrogen sulphide in humid air by arrays of gold nanoparticle-functionalized carbon	
nanotubes	
12:50 – 13:05: Monica Carril (Instituto Biofisika (CSIC, UPV/EHU), Spain)	0
Synthesis of water-soluble fluorinated gold nanoparticles and in vivo 19F MRS.	
13:05 – 14:30: Lunch Break	

Chairperson: Jordi Llop (CIC Biomagune, Spain)	
14:30 – 15:00: Meital Reches (The Hebrew University of Jerusalem, Israel)	К
Functional Coatings for Sterile Surfaces	
15:00 – 15:15: Malou Henriksen (CIC biomaGUNE, Spain)	0
SERS-active 3D printed scaffolds; combining hybrid materials to better understand the tumour environment	
15:15 – 15:30: Jesus Santamaria (Universidad de Zaragoza, Spain)	0
A potential catalytic therapy in oncology: Cu-Fe Nanoparticles responsive to tumor microenvironment	
15:30 – 15:45: Lorena Simon Gracia (University of Tartu, Estonia)	0
Tumor-penetrating polymersomes encapsulating a novel anthracycline for cancer treatment	
15:45 – 16:00: Sara Escalera (University of Valladolid, Spain)	0
Novel targeted devices based on Elastin-like polypeptides for diagnosis and gene therapy in breast cancer	
16:00 – 16:15: Marina Lopez Yubero (Instituto de Micro y Nanotecnología, Spain)	0
Effects of energy metabolism on the mechanical properties of breast cancer cells.	
16:15 – 16:35: Roy Beck (Tel Aviv University, Israel)	Ι
Order from the disorder with intrinsically disordered peptide amphiphiles	

16:35 – 17:05: Coffee Break / ePoster Session / Exhibition

Chairperson: Aran Garcia-Lekue (DIPC, Spain)

17:05 – 17:20: Ana María Pablo-Sainz-Ezquerra (Ecole Centrale de Lyon / Institut des Nanotechnologies (INL), France)OGold-seeded lithium niobate nanoparticles as NanoZyme biosensors17:20 – 17:35: Alicia Aparicio Millán (Instituto de Micro y Nanotecnología (IMN-CNM, CSIC), Spain)O

Controlled deposition and characterization of single bacteria using nanomechanical sensors in air	
17:35 – 17:50: Unai Ortiz-Orruño (ICFO, Spain)	0
Ultra-Sensitive High Dynamic Range Label Free Platform for Bioparticle Detection	
17:50 – 18:05: Nuria Alegret (UPV/EHU, Spain)	0
Nano in 3D: CNT and Conjugated Polymers for Electrosensitive Tissue Regeneration	
18:05 – 18:20: Jose Maria Alonso (I+Med SCoop., Spain)	0
Functionalized Biomimetic Nanohydroxyapatite for Biomedical Applications	

Thursday (25/11/2021)

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10:25–11:30: Coffee Break / Poster Session / Exhibition

Chairperson: Frank Ortmann (TU Munich, Germany)	
11:30 – 11:45: Mikel Arruabarrena Larrarte (Centro de Física de Materiales, Spain)	0
Unique Spin-orbit Properties of Magnetic Layered Bulk CoTiO3	
11:45 – 12:00: Mariusz Barczak (Maria Curie-Sklodowska University, Poland)	0
Magnetic alginate hydrogels: the role of particles' surface functionalization	
12:00 – 12:15: Jacob Johny (University of Duisburg-Essen, Germany)	0
Gold nanoparticle-induced formation of reactive oxygen species in proton therapy is a surface effect	
12:15 – 12:30: Rui Gusmão (University of Chemistry and Technology Prague, Czech Republic)	0
2D Layered MPX3 Performance for Water Splitting Reactions	
12:30 – 12:45: Srdjan Stavrić (University of Trieste, Italy)	0
Striking Influence of Nickel Surface Changes on the Growth of Cobalt Nanostructures	
12:45 – 13:00: Akash Bachhuka (Rovira i Virgili University (URV), Spain)	0
Nanoengineered surfaces for modulating cell-surface interaction	
13:00 – 13:15: Cristina Vicente Manzano (Instituto de Micro y Nanotecnología (IMN-CSIC), Spain)	0
Reduction of the Thermal Conductivity by the Nanostructuration of Electrodeposited CuNi Alloys	

13:15: Closing