

Wednesday, February 25, 2026		
8:30 – 10:00	Registration	
10:00 – 10:15	Opening	
Chair	Sergio Moya	
10:15 - 11:00	Twan Lammers <i>Plenary Lecture</i>	<i>Smart Strategies to Promote Cancer Nanomedicine Performance and Clinical Translation</i>
11:00 - 11:30	Coffee Break	
11:30 – 11:55	Gabriela Romero <i>Keynote Session</i>	<i>Amino-Acid–Based Block Copolymers as Artificial Viruses for Brain Gene Editing</i>
11:55 – 12:20	Nicola Toschi <i>Keynote Session</i>	<i>Foundation Models for Chemistry and Atoms: Toward AI-Guided Design of Self-Assembled Hybrid Nanomaterials</i>
12:20 – 12:45	Alejandro Sosnik <i>Keynote Session</i>	<i>Engineering Self-Assembled Systems for Precision Therapeutics</i>
12:45 - 14:00	Lunch at the conference venue	
Chair	Horacio Cabral	
14:00 – 14:45	Horacio Cabral <i>Plenary Lecture</i>	<i>Nanomedicine Strategies for Targeted Cancer Immunotherapy</i>
14:45 – 15:10	Frederico Pittella <i>Keynote Session</i>	<i>RNAi Therapy in Cancer: Strategies for the Development of siRNA Nanocarriers</i>
15:10 – 15:35	Chie Kojima <i>Keynote Session</i>	<i>Applications of Anionic-Terminal Phe-Modified Dendrimers to Drug Delivery into Lymph Nodes and their T Cells</i>
15:35 – 16:00	Hans Bäumlér <i>Keynote Session</i>	<i>Functionalization of Hemoglobin Microparticles as Drug Carriers for Effective Cancer Cell Targeting</i>
16:00 – 16:30	Coffee Break	
16:30 – 16:55	Diego Cattoni <i>Keynote Session</i>	<i>Interfacing Living Medicines with Soft Matter: Biopolymer-Engineered Bacteria for Precision Cancer Therapy</i>
16:55 – 17:40	Vincenzo Cerullo <i>Plenary Lecture</i>	<i>PeptiCRAd: From Lab Discovery to the Clinic, a Highly Customizable Platform for Personalized Cancer Vaccine</i>
17:40 – 17:55	Arthur Gaveau <i>Oral contribution</i>	<i>The 3D-RCPG Project: A Strategic Opportunity for Quality Control of Membrane Receptors and the Future of Medicine</i>
17:55 – 18:30	Flash Session Dhiraj Mishra, Liqiu Ma, Livia do Nascimento Grossi, Francesca Milano, Miao Fu	
18:30 – 19:30	Poster Session with Drinks Reception	

Thursday, February 26, 2026		
Chair	Radostina Georgieva	
9:00 – 9:45	Aitziber Cortajarena <i>Plenary Lecture</i>	<i>Engineering Protein-Based Hybrid Composites and Self-assembled Biomaterials for Advanced Nanomedicine and Bioelectronics</i>
9:45 – 10:10	Ali Miserez <i>Keynote Session</i>	<i>Phase-Separating Peptides as a Universal Platform for Intracellular Delivery of Macromolecular Therapeutics</i>
10:10 – 10:35	Beatriz G. de la Torre <i>Keynote Session</i>	<i>Self-Assembly of Cell-Penetrating Lipo-Peptides into Functional Nanostructures for Drug Delivery</i>
10:35 - 11:00	Kitipong Assatarakul <i>Keynote Session</i>	<i>Development of FOS- and Antioxidant-Rich Functional Durian Powder by Enzymatic Treatment and Encapsulation</i>
11:00 - 11:30	Coffee Break	
11:30 – 11:55	Primana Punnakitikashem <i>Keynote Session</i>	<i>Multifunctional Nanomedicine for Brain Metastases and Primary Brain Cancer: Blood–Brain Barrier Penetration and Macrophage Repolarization</i>
11:55 – 12:20	Marco Monopoli <i>Keynote Session</i>	<i>Understanding the Nanomaterial Interaction with Biomolecules, a Journey from Safety to Applications in Nanomedicine</i>
12:20 – 12.45	Kaori Sugihara <i>Keynote Session</i>	<i>Peptide cooperative effects towards the development of new antimicrobial agents</i>
12:45 - 14:45	Free time for Lunch on your own	
Chair	Sergio Moya	
14:45 – 15:30	Raffaele Mezzenga <i>Plenary Lecture</i>	<i>Amyloid Fibrils as Functional Ingredients for Human Nutrition and Nanomedicine</i>
15:30 – 15:55	Luai Khoury <i>Keynote Session</i>	<i>When Proteins Become Machines: Self-Assembled Hybrid Materials for Autonomous Therapeutic Systems</i>
15:55 – 16:10	Pamina M. Winkler <i>Oral contribution</i>	<i>Small Molecules, Big Impact: Quantifying the Influence of Amino Acids on Protein Interactions</i>
16:10 – 16:25	Xiwen Chen <i>Oral contribution</i>	<i>Engineering Hybrid Polymeric Gd2O3 Nanoparticles for Tumor-Targeted Neutron Capture Therapy</i>
16:25 – 16:40	Pengwen Chen <i>Oral contribution</i>	<i>Optoregulation of Pleiotropic Immune Signaling via Pinpoint mRNA Delivery for Tumor-Targeted Therapy</i>
16:40 – 16:55	Camila Quinetti Paes Pittella <i>Oral contribution</i>	<i>Poly-L-Lysine–Cholesterol Functionalization of Bacterial Nanocellulose Membrane Through Self-Assembly for Skin Tissue Regeneration</i>
16:55 – 17:30	Coffee Break	
17:30 – 17:55	Chanchai Boonla <i>Keynote Session</i>	<i>Designing and Testing Protein Nanocarrier Platform for Targeted Cancer Therapy</i>
17:55 – 18:20	Akira Matsumoto <i>Keynote Session</i>	<i>Crafting Molecular Precision: Designer Boronolactins in Polymer Bioengineering</i>
18:20 – 19:00	Flash Session Riho Fujikura, Shota Michida, Nanaka Takeuchi, Franziska Wasner, Eduardo Martinez	
19:00 – 20:30	Free Time	
20.30 – 22:30	Dinner at “El Vaskito”	

Friday, February 27, 2026		
Chair	Horacio Cabral	
9:00 – 9:45	Changyou Gao <i>Plenary Lecture</i>	<i>Inflammation-modulating nanomaterials for tissue repair and regeneration</i>
9:45 – 10:10	Guocheng Wang <i>Keynote Session</i>	<i>Nanointerfacial Engineering on Biomaterial Surfaces and Their Biomedical Applications</i>
10:10 - 10:35	Gustavo Abraham <i>Keynote Session</i>	<i>Advances and Challenges in Electrospun Nanofibers for Therapeutic Agent Delivery</i>
10:35- 11:00	Graciela Calabrese <i>Keynote Session</i>	<i>Polyelectrolyte complex nanomaterials. From extracellular matrix to cancer stem cells</i>
11:00- 11:30	Coffee Break	
11:30 – 11:55	Nicolas Muzzio <i>Keynote Session</i>	<i>Engineering Polymer Interfaces to Guide Cell Behavior</i>
11:55 – 12:20	Ning Gao <i>Keynote Session</i>	<i>Metabolic Regulation of BMSCs by NAD⁺ Drives the Transition from Anti-inflammatory to Osteogenic Function for Bone Regeneration</i>
12:20 – 12:45	Richard Murray <i>Keynote Session</i>	<i>Publishing in the Advanced Portfolio</i>
12:45 - 14:00	Lunch at the conference venue	
Chair	Radostina Georgieva	
14:00 – 14:45	Ravin Narain <i>Plenary Lecture</i>	<i>Enhancing Nucleic Acid Stability and Delivery using Glycopolymer and Biopolymer-based Nanoformulations</i>
14:45 – 15:10	Marco Marradi <i>Keynote Session</i>	<i>Hybrid Glyco-Gold Nanoparticles Displaying Multivalent Iminosugars as Modulators of the Lysosomal Enzyme Gcase</i>
15:10 – 15:35	Nongnuj Muangsin <i>Keynote Session</i>	<i>Zwitterionic Quaternized Hyaluronate Self-Assembly for Enhanced Cellular Uptake in Drug Delivery</i>
15:35 – 15:50	Tamara Dacoba <i>Oral contribution</i>	<i>Nanoparticle Surface Chemistry Determines Protein Corona Formation</i>
15:50 – 16:05	Alexander Bittner <i>Oral contribution</i>	<i>Thin Water Layers on a Virus - AFM and Neutron Reflectometry</i>
16:05 – 16:20	Lydia Martínez-Parra <i>Oral contribution</i>	<i>Electrostatic Modulation in Self-Assembled Peptide Systems for Neural Cell Fate</i>
16:20 – 16:35	Ane Escobar <i>Oral contribution</i>	<i>Membrane-Targeted Metallic Nanoparticles Photomodulate Neuronal Activity</i>
16:35 – 17:00	Coffee Break	
17:00 – 17:25	Danijela Gregurec <i>Keynote Session</i>	<i>Physical Transduction Pathways in Magnetic Nanomaterials for Wireless Neuromodulation</i>
17:25 – 17:50	Alberto Perna <i>Keynote Session</i>	<i>Self-Assembled Antifouling Coatings and Functional Electrode Interfaces for High-Density Neural Probes</i>
17:50 – 18:10	Closing Remarks	

Poster Session: Wednesday, February 25, 2026

Order	Author	Title	Code
1	Ahmed Subrati	<i>Graphene-Incorporated Ultra-High-Molecular-Weight Polyethylene Composites for Innovative Prosthetic Solutions in Arthroplasty</i>	P001
2	Zuffi Sofia	<i>Polymer-based vectors for plasmid delivery: early development for a non-viral CAR-T cell therapy approach</i>	P002
3	Judith Bruyère	<i>Engineering a living cell-based anti-tumoral therapy by combining smart materials and genetic circuits.</i>	P003
4	Giulia Vozzolo	<i>Piezoelectric Polymer Coated Magnetic Nanodiscs for Magnetically Induced Electrical Stimulation</i>	P004
5	Sunisa Thongsom	<i>β-Cyclodextrin Nanosponges as a Dual-Drug Delivery System For C-MYC Inhibition and Chemotherapy Enhancement</i>	P005
6	Melanie Ferrace	<i>Fabrication and Characterization of Probiotic Biohybrids Assembled via Coaxial Electrospinning for Colon-Targeted Oral Delivery</i>	P006
7	Ruiz Coman, Fernando	<i>Spray coating: a simple and reliable surface coverage method for biomedical applications</i>	P007
8	P. Rafael Donnarumma	<i>Enhancing Colloidal Stability of Anisotropic Magnetic Nanodiscs through Mesoporous Silica and P(NIPAM/MAA) Copolymer Coatings</i>	P008
9	Erick Cordero	<i>Synthesis of Supramolecular Nanoparticles for Drug Delivery and Vaccines Design</i>	P009
10	Ilaria De Cristofaro	<i>Ionizable Lipid Nanocarriers for Targeted siRNA Delivery: Impact of Lipid Composition and Surface Functionalization</i>	P010
11	Brandhon F. Flores-Ibarra	<i>Targeted Ion Delivery by Electrically Conductive Gelatin-Based Hydrogels</i>	P012
12	Alejandro Fábrega-Puentes	<i>Design and Characterization of UiO-66 MOFs for Targeted Chemotherapy and PET Imaging Applications</i>	P013
13	Claudia Gentili	<i>Effects of a Scopoletin-Derived Hybrid on the Viability of Colorectal Cancer Cells</i>	P014
14	Soichiro Kondo	<i>Nanocarrier Targeting of Ischemic Myocardium Through Regioselective Glucose Recognition</i>	P016
15	Micaela A. Macchione	<i>Hybrid Magnetic Thermo-Responsive Nanostructures for Controlled Viral Vector Release</i>	P017
16	Guanghao Hu	<i>In Vivo Programming of CAR T Cells Using Anti-CD3-Targeted mRNA Micelles</i>	P018

17	Wei-Chun Weng	<i>The Development of AMP-based Antibiotics for Carbapenem-resistant Klebsiella Pneumoniae and Carbapenem-resistant Acinetobacter Baumannii</i>	P019
18	Yuki Nakashima	<i>Systematic control of polycation length in polymeric micelles enhances in vivo mRNA delivery</i>	P020
19	Eduart Gutiérrez-Pineda	<i>Polypyrrole-based hybrid systems for bidirectional electro–mechano–magnetic transduction in neurostimulation</i>	P022
20	Eduart Gutiérrez-Pineda	<i>Electrically Triggered Ca²⁺ Release from Carboxylated Polypyrrole Coatings for In-Vitro Calcium Signalling Modulation</i>	P023
21	Nanami Maehara	<i>Development of a renal excretory Nano-Ruler MRI Probe for Early Detection of Chronic Inflammation</i>	P024
22	Patumporn Manowan	<i>Single-cell Layer-by-Layer Assembly on Probiotic Lactobacillus plantarum for Enhanced Viability during In Vitro Digestion and Potential Cancer Therapy Applications</i>	P025
23	Marco Micali	<i>Personalized Targeting of Blood–Brain Barrier Opening via Low-Intensity Focused Ultrasound: The Pulsar Framework for Accurate Preclinical Delivery</i>	P026
24	Kevin Barthelmes	<i>Long-Lived Yet Reversible Bonds in Water: From Sub-Seconds to Months</i>	P027
25	Valeria Petrova	<i>Horse Serum–Based Validation of an Adipogenic Differentiation Protocol for Equine ASCs</i>	P028
26	Ekaterina Vachkova	<i>Quality Control of Equine Adipose Stem Cells (ASCs) for Clinical Application</i>	P029
27	Boyana Paarvanova	<i>Real-Time Hemolysis Assay via Spectrophotometric Methods</i>	P030
28	Kahan Celik	<i>Emerging Exosome-Based Therapeutic Approaches in Lupus Nephritis</i>	P031
29	Samuil Stanev	<i>Partitioning of Thioridazine and Chlorpromazine Between Erythrocyte Membranes and Albumin Nanoparticles</i>	P032
30	G. Savova	<i>Electrochemical Investigation of pMPC Liposome Structural Stability on Gold and Carbon Electrodes</i>	P033
31	Bilyana Tacheva	<i>Spectroelectrochemical Analysis of Redox Potential of Hemoglobin-Based Submicron Particles</i>	P034
32	Livia Chaves Corvino Silva	<i>Synthesis of copolymer comprising polyanionic segment to stabilize hybrid nanoparticles for siRNA delivery</i>	P035
33	Christian Trengereid	<i>The Possible Mechanism of Anti-Tumoric Effect of Brown Adipocytes</i>	P036
34	Liya Mihalkova	<i>Prevention of Hemolysis by Stabilizing the Erythrocyte Membranes with Nanoparticles</i>	P037

35	Natalia Zografidou	<i>The Use of Self-Assembled Hybrid Nanoparticles in Ocular Oncology</i>	P038
36	Luis C. Almeida	<i>Stimuli-responsive supramolecular hydrogels via dynamic boronate ester bonds for 3D cell culture</i>	P039
37	Rebeca Rocha Batista	<i>Influence of Cultivation Conditions of Bacterial Nanocellulose and the Formulation of Chitosan Nanoparticles with Mangiferin on the Development of Biocuratives</i>	P041
38	Allana Carvalho Sila	<i>siRNA-Loaded Chitosan Nanoparticles as a Promising Strategy for Lung Cancer Therapy</i>	P042
39	Paolo Di Gianvincenzo	<i>Cyanidin/Alginate self-assembled, supramolecular structures: influence of pH and origin of chiroptical properties</i>	P043
40	Eva Carpintero Cueto	<i>Engineered Protein-Nanomaterial Hybrids for Targeted Combination Cancer Therapies</i>	P044
41	Julián Fuentes	<i>Desolvation-Driven Self-Assembly of Human Platelet-Derived Proteins into Functional Nanocarriers</i>	P045
42	Miroslav Karabaliev	<i>Indirect methods for studying drug-nanoparticle interactions</i>	P046
43	Estael Cruz Cazarim	<i>Development of Hybrid Multimodular Nanoparticles Comprising Calcium Carbonate and Plant Lipids for RNAi based Melanoma Therapy</i>	P040

