DAY 1 – 26TH MARCH 2025 Note: Live at *Mariano Gago Auditorium*, livestreamed in *Corino de Andrade* Auditorium. PRIORITY SEATING for Speakers, Organizers and the Scientific Committee. REMAINING SEATS are first come, first served.

	REGISTRATION					
08:30 - 09:15	i3S main hall					
····g· ···.g	POSTER MOUNTING	PRESENTATION UPLOAD				
	i3S main hall	Mariano Gago Auditorium				
		ME SESSION				
	Manano Gago Auditorium, with livest	reaming in Corino de Andrade Auditorium				
09:15 - 09:30	Bruno Sarmento (i3S-University of Porto)					
	Cláudia Martins (i3S-University of Porto)					
	Cornelia D. Sonntag (Galenus Foundation)					
	SCIENTIFIC SESSION 1					
	Chair: Christel C. Mueller-Goymann (Technical University of Braunschweig)					
	Co-chair: Ana M. Carvalho (i3S-University of Porto)					
	INVITED SPEAKER					
09:30 - 10:00	Iniversity of Padova)					
	Multifunctional polymers for nucleic acid delivery ABSTRACT SHORT TALKS I					
	ABSTRACT	SHORTTALKST				
	Koen Raemdonck (Ghent University)					
		ote intracellular delivery of RNA therapeutics				
40.00						
10:00 - 10:40	Kristin Fichna (Institute fo	r Bioengineering of Catalonia)				
	Drug-loaded urease-powered nanomotors to enhance bladder cancer chemotherapy					
	Miguel Xavier (International Iberian Nanotechnology Laboratory)					
	Microfluidics and organ-chips as advanced models for drug delivery studies COFFEE BREAK PRESENTATION UPLOAD					
10:40 - 11:10	i3S main hall	Mariano Gago Auditorium				
		C SESSION 2				
		EPABE-University of Porto)				
		(i3S-University of Porto)				
	INVITED SPEAKER					
11:10 - 11:40		annin (Lonza)				
	Revolutionizing enteric delivery: unveiling the	performance of Capsugel [®] Enprotect [®] capsules				
	ABSTRACT	SHORT TALKS II				
	Nathalie Mignet (Universit	é de Paris Cité, CNRS, INSERM)				
	•	ne response in colorectal cancers				
	Mina Mehanny (A	\in Shams University)				
		oparticles demonstrate neuroprotective effects				
	against	chemobrain				
	Cabriella Castabila (Uni					
	-	versity of Napoli Federico II)				
11:40 - 13:10	thway in lung fibrosis with tailored siRNA-loaded					
11.40 - 13.10	nanc	punicies				
	Ramona Jeitler (University of Graz)					
		ects on nanostructured lipid carrier stability and				
	cellul	ar uptake				
		nical University of Denmark)				
	Oxygen-maacea modulation of drug re	elease from semipermeable polymersomes				
	Inés Rubio Prego (University of Santiago de Compostela)					
		ragnosis in glioblastoma multiforme				

Zhanjun Ma (Université Catholique de Louvain) Lipid nanoparticle-mediated delivery of microRNA-124 reduces neuroinflammation

13:10 - 14:00	LUNCH BREAK		
13:10 14:00	i3S main hall		
	SCIENTIFIC SESSION 3 Chair: Rita C. Acúrcio (iMed-University of Lisbon) Co-chair: Catarina Pacheco (i3S-University of Porto)		
	INVITED SPEAKER		
14:00 - 14:30	Miriam Breunig (University of Regensburg)		
	Temporal control of vaccine presentation		
	ABSTRACT SHORT TALKS III		
	Paolo Signorello (University of Pisa)		
	Mucoadhesive chitosan-coated Fe3O4 magnetic nanoparticles for the treatment of intestinal motility disfunctions		
	motility disjunctions		
14:20 45:20	Giulia Anderluzzi (University of Milan)		
	Investigating the effect of cationic polymer on the structure and pDNA transfection efficiency of		
14:30 - 15:30	lipopolyplexes		
	Lennart Christe (Goethe University Frankfurt)		
	Unraveling cellular uptake of biomimetic liposomes by 3D Raman imaging		
	Paulo Faria (i3S-University of Porto)		
	Synergistic triple-drug chemotherapy exhibits powerful antitumoral effects against glioblastoma		
	in vitro SCIENTIFIC SESSION 4		
	Chair: Bruno Sarmento (i3S-University of Porto)		
	Co-chair: Cláudia Martins (i3S-University of Porto)		
	KEYNOTE		
	Virtual real-time session		
15:20 16:15	Robert Langer (Massachusetts Institute of Technology)		
15:30 - 16:15	Long-term strategies in biomedical technologies: priorities and challenges - From the discovery		
	of the first angiogenesis inhibitors to the development of controlled drug delivery systems and the foundation of tissue engineering		
16:15 - 16:20	DAY 1 WRAP-UP <i>with musical performance</i> Tuna TS - Tuna de Tecnologia da Saúde do Porto		
	YOUNG SCIENTIST POSTER NETWORKING SESSION		
16:20 - 18:15	with Porto d'Honra		
-	i3S main hall		
	Sponsored by the Young Scientist Forum of the European Society for Biomaterials (YSF-ESB)		
18:15 - 19:30	Free time before dinner		
	Social Dinner at <i>Sancho Panza</i> Restaurant		
19:30	Meeting point at restaurant's entrance Address: Avenida Ramos Pinto 250, 4400-261 Vila Nova de Gaia		
	Address. Avenida Ramos Finto 250, 4400-201 vita Nova de Odia		

DAY 2 – 27TH MARCH 2025 Note: Live at *Mariano Gago Auditorium*, livestreamed in *Corino de Andrade* Auditorium. PRIORITY SEATING for Speakers, Organizers and the Scientific Committee. REMAINING SEATS are first come, first served.

	PRESENTATION UPLOAD	POSTER DEMOUNTING	
08:30 - 08:55	Mariano Gago Auditorium	i3S main hall	
08:55 - 09:00	DAY 2 WELCOME		
00.55 - 09.00		treaming in Corino de Andrade Auditorium	
		FIC SESSION 5	
		lot (University of Valencia) gas (i3S-University of Porto)	
		ED SPEAKER	
09:00 - 09:30			
		latory nanomedicines	
	ABSTRACT	SHORT TALKS IV	
	Eliana M. Lima (Fe	deral University of Goiás)	
		ce brain drug delivery via intranasal administration	
	Pedro Fonte (University of Algarve)		
		nptothecin-loaded mesoporous silica nanoparticles putic approach for skin cancer treatment	
	us a new chemo-immanotherape	alle approach for skin cancer treatment	
	Vijay Kumar Pal (i3S-University of Porto)	
		ry of key amino acids and revamping metabolic	
	capacities of immur	ne cells against tumor cells	
09:30 - 11:05	Vitor M. Gaspar (CIC	ECO-University of Aveiro)	
		colloidal gels for focalized therapeutics delivery	
		Iniversity College Cork)	
		r intestinal delivery of RNA as a treatment for ileal	
	Cror	n's disease	
	Bárbara Carreira (iMed.ULisboa-University of Lisbon)		
	Targeting melanoma brain metastases with a neoantigen-enhanced nanovaccine		
	Sheila Barrios-Esteban (DIVERSA Technologies) Advancements in lipid nanoemulsion technology for enhanced drug delivery		
	FEE BREAK		
11:05 – 11:35 PRESENTATION U		main hall	
	PRESENTATION UPLOAD	POSTER DEMOUNTING	
	Mariano Gago Auditorium	i3S main hall	
		FIC SESSION 6	
		niversité Catholique de Louvain) des (FCUP-University of Porto)	
		ST SPEAKER	
	Alessio Malfanti (University of Padova)		
11:35 – 12:10	Part I: Exploring hyaluronic acid-conjugate	es for glioblastoma local chemo-immunotherapy	
		successful ERC application	
	ABSTRACT	SHORT TALKS V	
	Carla Vitorino (IMS-University of Coimbra)		
		inatorial drug and gene therapy in glioblastoma	
12:10 - 13:35	Juan Aparicio-Blanco (Complutense University of Madrid)		
	Double trouble to fight glioblastoma: in ovo assessment of cannabidiol and paclitaxel co-loaded lipid nanocapsules		
	ιρια πατιστάρομος		
		PABE-University of Porto)	
	Amphiphilic dendrimers: a nov	el approach to NAM delivery in E. coli	

Maria Angela Motta (POLYMAT-University of the Basque Country) Surface-decorated multilayer nanoparticles with inherent wound healing pro				
Lisa Casagrande (University of Padova) Physical PEGylation of siRNA for corneal delivery				
SPONSOR: Joshua Karam (Izon Science) Nanoparticles for drug delivery: scale-up purification and single-particle charac	SPONSOR: Joshua Karam (Izon Science)			
13:35 - 14:20LUNCH BREAK i3S main hallPOSTER DEMOUNTIN i3S main hall				
SCIENTIFIC SESSION 7 Chair: José das Neves (i3S-University of Porto) Co-chair: Sarah Hester (University of Muenster)				
INVITED SPEAKER 14:20 – 14:50 Samuel Sánchez (Institute for Bioengineering of Catalonia) Biocompatible chemical nanobots and their applications in biomedicing	INVITED SPEAKER Samuel Sánchez (Institute for Bioengineering of Catalonia)			
PHOSPHOLIPID RESEARCH CENTER SESSION	PHOSPHOLIPID RESEARCH CENTER SESSION			
SPONSOR: Richard Wibel (Phospholipid Research Center) Phospholipid Research Center – introductory talk	SPONSOR: Richard Wibel (Phospholipid Research Center) Phospholipid Research Center – introductory talk			
Sandra Klein (University of Greifswald) Oral mixed micelle formulations – a novel phospholipid-based platform for safe a pediatric drug delivery	nd effective			
SCIENTIFIC SESSION 8 Chair: Paula Parreira (i3S-University of Porto)				
Anette Müllertz (University of Copenhagen)	Tuning self-nanoemulsifying drug delivery systems for increasing oral peptide absorption after			
COFFEE BREAK i3S main hall				
16:05 - 16:35PRESENTATION UPLOADPOSTER DEMOUNTINMariano Gago Auditoriumi3S main hall	G			
SCIENTIFIC SESSION 9 Chair: Eliana M. Lima (Federal University of Goiás) Co-chair: Mariana Hugo Silva (Ghent University)				
GUEST SPEAKER 16:35 – 17:05 Ana Melero (University of Valencia) Skin drug delivery of big-sized anti-inflammatory agents: challenges and sol	utions			
TRANSLATION-DRIVEN SESSION: FROM BENCH TO BEDSIDE Roundtable				
Meritxell Teixidó (Gate2Brain) Gate2Brain blood-brain barrier shuttle peptides:				
17:05 - 17:55 From discovery to applications and going beyond small molecules				
Patrícia C. Henriques (GOTECH Antimicrobial) From the lab to a medtech company – the GOcap [®] story				
Teófilo Vasconcelos (BIAL) Translation from the perspective of pharmaceutical product developme	nt			
SCIENTIFIC SESSION 10 Chair: Catarina L. Pereira (i3S-University of Porto)				
INVITED SPEAKER 17:55 – 18:25 João Mano (CICECO-University of Aveiro)	INVITED SPEAKER			