

2024

Cutting-edge Nanotechnologies for Good9-12Health and Well-beingJULY

A joint International Conference Funded by Chulalongkorn University (Thailand), MSCA-RISE OXIGENATED project through CIC biomaGUNE (Spain) and supported by the Embassy of Spain in Bangkok and CDTI-Ministry of Science, Innovation and Universities, Spain

Time	Tuesday 9 JUL 2024	Wednesday 10 JUL 2024	Thursday 11 JUL 2024	Friday 12 JUL 2024
8.00-	8.00-8.30:	Session 3: Target it	-PARALLEL SESSION-	09:00 – 17:00
9.00	Registration	precisely.	(Main Hall)	Session 9: The linkage
		8.00-8.30:	Session 7: Repair it	with industry (hosted by
	8.30-9.00:	3.1. Homing peptides for	smartly.	CDTI, Spanish Embassy
	Open ceremony	targeted nanomedicine	8.00-8.30:	and PMU-C)
	By:	solutions in cancer (Prof. T.	7.1. Hybrid materials/MOFs	
	CU president (or	Teesalu, EE, ONLINE as an	for tissue engineering (Prof.	SPAIN-THAILAND
	vice president for	option)	G. Wang, CN)	Innovation Forum:
	research affairs)		8.30-9.00:	"Harnessing the potential of
	Ambassador of	8.30-9.00:	7.2. Organ-on-chip nano-	nanotechnology in Future
	Spain to Thailand,	3.2. Strategies for peptide	assembled 3D models for	Health, Personalized
	H.E. Felipe de la	synthesis and their	oral mucositis-induced	Medicine and Wellbeing."
	Morena (tentative)	applications in targeting	chemotherapy (Prof. J. N.	Objective: for creating
	Representative of	and as antibacterials (Prof.	Ferreira, TH)	Dialogue and networking
	EU Delegation in	F. Albericio, ZA)	9.00-9.30:	platform between Thailand
	Bangkok		7.3. Nanomedicine	and Spain promoting
	(tentative/TBC)		strategies for targeted	exchange on technological
	CIC biomaGUNE		delivery of biologics (Prof.	trends in nanotechnology,
	Scientific Director		H. Cabral, JP)	and their applications to
	(Prof. Aitziber L.		9.30-10.00:	future health, personalized
	Cortajarena)		7.4. Biomaterials and	medicine, and wellbeing.
	• PMU-B		artificial organs (Prof. G.	Information will be
	representative		Abrahm, AR, to be replaced)	shared on the bilateral
	Project			funding scheme (TLSIP –
	OXIGENATED			Thailand & Spain
	representative (Dr.			Innovating Program)
	S. Moya)			jointly implemented by
			-PARALLEL SESSION-	CDTI (Spain) and PMU-C
	(Final protocol		(Technical Site Visits for	(Thailand) promoting
	arrangement depending		members of the Spanish	and funding innovation-
	on confirmations needs to		delegation)	driven R&D cooperation
	be confirmed)		8.00-15.00:	between Spanish and
			Spanish delegates visit Thai	Thai companies and
			companies/institutes that	other R&D-performing
			work on nanomedicine or	organizations.
			related field.	
			1. HOSPITAL – Siriraj	9.00-9.20:
			Hospital (TBC)	I. Opening remarks &
			2. NANOTECH/NSTDA (TBC)	Inauguration
			3. SIAM BIOSCIENCE (TBC)	By:
	<u> </u>			 MHESI representative

9.00- 10.00	9.00-10.00: Preliminary lecture: Self-adaptive biomaterials in tissue regeneration (Prof. C. Gao, CN)	9.00-9.30: 3.3. Mesoporous materials in targeted cancer treatment (Prof. G. Illia, AR, ONLINE) 9.30-10.00: 3.4. Cancer stem cells as a target for cancer therapy (Prof. P. Chanvorachote, TH)		 Ambassador of Spain to Thailand, H.E. Felipe de la Moran CDTI representative PMU-C representative 9.20-9.50: II. Overview of R&D Capacities in Nanomedicine Nanomed representative PMU-C representative (TBC) 09:50 – 10:20 III. Thailand-Spain bilateral R&D funding mechanism (TLSIP)
				 CDTI representative PMU-C representative (TBC)
10.00- 10.15	Coffee break	Coffee break	Coffee break	10:20-10:30 Coffee break
	Session 1: Elevating the killing power. 10.15-10.45: 1.1. CAR-T therapy with non-viral vectors (Prof. G. Romero, USA, ONLINE) 10.45-11.15: 1.2. Development of sustainable Chimeric Antigen Receptor T cell for cancer treatment in Thailand (Prof. K. Suppipat, TH) 11.15-11.45: 1.3. Glyco nanomaterials in immunotherapy (Prof. M. Marradi, IT)	Session 4: Magnetize me! 10.15-10.45: 4.1. Advanced magnetic nanomaterials at the frontier of the wireless neurotech (Prof. D. Gregurec, DE) 10.45:11.15: 4.2. Hydrogel for cancer treatment (Prof. Joaquim Miguel Oliveira, PT) 11.15-11.45: 4.3. Nanomaterials as tools for animal castration (Prof. C.M. Lucci, BR)	Pitch session 2: 3-minute research pitch (3 min pitch, 2 min Q&A, 5 min each) 10.20-11.20: Grad Students (13-24) Presenter 13 Presenter 14 Presenter 15 Presenter 15 Presenter 16 Presenter 17 Presenter 18 Presenter 19 Presenter 20 Presenter 21 Presenter 22 Presenter 23 Presenter 24	10.30-11.40: V. Technical Session I R&D capacities / pitching ideas for cooperation Spanish side (TBC): Thai side (TBC): 11.40-12.50: V. Technical Session II (Cont.) Thai side (TBC): Spanish side (TBC): 12:50 – 13:00 Closing Remarks for the Session 9
12.00- 13.00	Lunch Lunchbox provided	Lunch Hotel international buffet	Lunch Hotel international buffet	13:00 – 14:00 Lunch (offered by Embassy of Spain / CDTI)

13.00- 15.00	13.00-13.30: 1.4. Cancer stem cell therapy approaches in nanomedicine (Prof. G. Calabrese, AR) Session 2: Kill it with light, heat, and sound. 13.30-14.00: 2.1. Photodynamic therapy in oral cancer treatment (Prof. R. Bentes, BR) 14.00-14.30: 2.2. Photothermal therapy with nanomaterials (Prof. J. Fuente, ES) 14.30-15.00: 2.3. Sonodynamic therapy of cancer: challenges and opportunities (Prof. A. Sosnik, IL)	Pitch session 1: 3-minute research pitch (3 min pitch, 2 min Q&A, 5 min each) 13.00-14.00: Grad Students (1-12) Presenter 1 Presenter 2 Presenter 3 Presenter 4 Presenter 5 Presenter 6 Presenter 7 Presenter 7 Presenter 8 Presenter 9 Presenter 9 Presenter 10 Presenter 11 Presenter 12 Session 5: Tiny tools for diagnosis and treatment 14.15-14.45: 5.1. Engineering protein- nanomaterial composites for nanomedicine: innovative tools for therapy and diagnosis (Prof. A. Cortajarena, ES) 14.45-15.15: 5.2. Next-Gen Nanomedicines - Transforming nanotechnology from drug delivery to design (Prof. G. Battaglia, ES)	Session 8: Better living through nanotechnology 13.00-13.15: 8.1. Enhanced biological activities of plant extracts through quaternised chitosan (Prof. N. Muangsin, TH) 13.15-13.30: 8.2. Proretinal nanoparticles: Synthesis, retinal stability and delivery into skin of different layers (Prof. S. Wanichwecharungruang, TH) 13.30-13.45: 8.3. Synthesis and surface modification of Inorganic Nanomaterials for biomedical applications (Prof. N. Insin) 13.45-14.00: 8.4. In silico and in vitro approaches in anti-cancer drug discovery (Prof. T. Rungrotmongkol) 14.00-14.15: 8.5. Hyaluronic acid-based nanomaterials for skin delivery and skincare cosmetics (Prof. J. Luckanagul, TH) 14.15-14.30: 8.6. Bioinspired nanoparticle synthesis from natural sources (Dr. T. Yata, TH) 14.30-14.45: 8.7. Nano imulsion as natural preservatives (Prof. U. Siripatrawan, TH) 14.45-15.00: 8.8 Nanotechnology in Umami and Kokumi Flavors,	 -PARALLEL SESSION- (Function Room) IV. Bilateral innovation forum: B2B, R2B, R2R meetings 14.00-17.00: seeking opportunities for setting up the business partnership between Thai academic institutes/ Thai companies and Spanish companies -PARALLEL SESSION- (Main Hall) Session 10: ROUND Table Discussion for research network and collaboration 14.00-16.00 (focusing on outcomes for:) Establishing research network or consortium Publications Research proposal for EU grants. A short presentation of each PI (including researchers from PMU-B's drug delivery research network) about their research interest and a call for collaboration. (Dr. C. Boonla as a moderator)
15.00- 15.15	Coffee break	Coffee break	(Dr. H. Uneyama, JP) Coffee break	Coffee break
15.15- 16.15	Honorary session: Prof. Dr. Hans Bäumler, Charité Universitätsmedizin Berlin, DE 15.15-15.45: H1. Inspirational talk by Prof. H. Bäumler (DE) 15.45-16.15: H2. A talk by Prof. R. Georgieva (DE/BG)	Session 6: Combatting bad bugs with armed troops. 15.30-16.00: 6.1. Biomedical applications of nanozyme armed bacteriophages (Prof. Z. Mao, CN, to be replaced) 16.00-16.30: 6.2. VLP-based treatments against house dust mite (Prof. A. Jacquet, TH)	Poster Session: Poster exhibition II	16.00-16.30: Poster presentation award announcement Closing Remarks (Dr. S. Moya)

16.15- 17.00	16.15-16.30: H3. Redox potential of hemoglobin microparticles and impact of layer-by-layer coating (Prof. Miroslav Karabaliev, BG) 16.30-16.45: H4. Hemoglobin-albumin cluster "HemoAct" as red blood cell substitute and O2 therapeutic (Prof. T. Komatsu, JP) 16.45:17.00: H5. A talk by Prof. Y. Tragoolpua (TH)	Poster Session: Poster exhibition I		
18.00	Welcome party (drink and light meal) at Chulanarumitr House		Bangkok Dinner Cruise (invited guests only) or at Ambassador Resident	
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EVENT

Local organizer:

Faculty of Medicine, Faculty of Science, Faculty of Pharmaceutical Sciences, Chulalongkorn University, Bangkok THAILAND Embassy of Spain in Bangkok, THAILAND

Oversea partner:

CIC biomaGUNE, San Sebastián, SPAIN CDTI, SPAIN

Venue:

Day 1: CU Music Hall Chulalongkorn University Bangkok, THAILAND Day 2-4: Mandarin Hotel, Bangkok, THAILAND