

2025 agenda

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**NANOPARTICLE
FORMULATION
SYMPOSIUM**

DAY 1

DAY 1	Time	Activity	Location
	08:00 – 09:00	Registration with pastries and hot drinks	Victoria House conference space

DAY 1	Session topic	Time	Speaker	Talk title
	Welcome and opening remarks	09:00 - 09:10	Conference organisers: Talia Shmool <i>Research Fellow</i> - Imperial College and Alex Kramer <i>Business Development Manager</i> - Croda Pharma	
	Lipid selection, formulation design and machine learning Chair: Talia Shmool <i>Research Fellow</i> - Imperial College	09:10 – 09:55	Keynote: Prof. Dan Peer <i>Director of Lab for Precision Nanomedicine</i> - Tel Aviv University (TAU)	The RNA revolution: From vaccines to therapeutic genome editing
09:55 – 10:25		Diego de Miguel Samaniego <i>Manager of Formulation Dept.</i> - Certest	An integrated nucleic-acid delivery platform harnessing novel ionizable lipids to develop targeted and thermostable LNPs	
10:25 – 10:55		Daragh McLoughlin <i>Principal Scientist</i> - Centre for Process Innovation (CPI)	Development of a high-throughput screening platform for RNA-LNP formulations: Some learnings	
		10:55 – 11:30	B R E A K	
	Manufacturing and analytics Chair: Robin Shattock <i>Professor of Mucosal Infection and Immunity</i> - Imperial College	11:30 – 12:00	Justin R Martin <i>Lead Development Scientist</i> - Croda Pharma	Supporting clients from pre-clinic to commercial: Using the Wigman model to strategise GMP process development
		12:00 - 12:30	Alexander Schwenger <i>Head of Process Development & AD/PD Coordination</i> - Lonza	End-to-end GMP innovation: Unlocking the future of complex RNA therapeutics
		12:30 – 13:00	Erdinc Sezgin <i>Associate Professor</i> - Karolinska Institute	Single particle profiling of the content and biophysical properties of nanoscale bioparticles
		13:00 – 13:30	Michael Hai Luu Nguyen <i>Vice President</i> - Helix Biotech	Engineering nucleic acid therapeutics and vaccines for performance, not just production
		13:30 – 14:30	L U N C H	

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	Vaccines formulation Chair: Prof. Dan Peer <i>Director of Lab for Precision Nanomedicine</i> - Tel Aviv University (TAU)	14:30 – 15:15	Keynote: Prof. Yvonne Perrie <i>Head of Strathclyde Institute of Pharmacy and Biomedical Sciences</i> - University of Strathclyde	Design rules for lipid nanoparticle vaccines: A formulation-centric perspective
		15:15 – 15:45	Shrirang Karve <i>Global Head of Delivery & Formulations</i> - Sanofi	mRNA formulation development: Vaccines and beyond
		15:45 – 16:15	Prof. Robin Shattock <i>Professor of Mucosal Infection and Immunity</i> - Imperial College	The influence of RNA cargo and lipid composition on expression
		16:15 – 16:30	B R E A K	
	Vaccines formulation part two Chair: Thomas Riermeier <i>President</i> – Croda Pharma	16:30 – 17:00	Cesar López-Camacho <i>mRNA Technology Programme Leader</i> - The Jenner Institute, University of Oxford	mRNA technologies applied to vaccine development against arthropod borne viruses
		17:00 – 17:30	Heinrich Haas <i>Chief Technology Officer</i> - NeoVac Ltd	Next generation LNPs with superior safety upon vaccination against viral infections
		17:30	END OF DAY 1	

DAY 1	Time	Activity	Location
	17:30 – 19:30	Complimentary drinks reception	Victoria House bar ground floor

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DAY 2	Time	Activity	Location
	08:00 – 09:00	Registration with pastries and hot drinks	Victoria House conference space

DAY 2

DAY 2	Session topic	Time	Speaker	Talk title
		09:00 – 09:45	Keynote: George Dakwar <i>Director of Formulation Platform - CureVac / BioNTech</i>	An mRNA-LNP vaccine platform tailoring the immunogenicity profile from prophylactic to therapeutic applications, reducing reactogenicity and extending shelf-life stability
	LNP technology for CAR-T therapy	09:45 – 10:15	Fred Campbell <i>Chief Executive Officer - OutFox Bio</i>	LNP-mediated genome engineering and ex-vivo CAR-T cell production
	Chair: Mariarosa Mazza, <i>Associate Director - AstraZeneca</i>	10:15 – 10:45	Bakul Gupta <i>CEO and Co-founder - Deliver Bioscience</i>	In-vivo gene editing with lipid nanoparticles
		10:45 – 11:15	B R E A K	
	Targeted LNPs and novel lipids	11:15 – 11:45	Patricia Monteiro <i>Associate Principal Scientist - AstraZeneca</i>	Development of targeted LNP formulations for extra hepatic delivery
	Chair: Prof. Yvonne Perrie <i>Head of Strathclyde Institute of Pharmacy and Biomedical Sciences - University of Strathclyde</i>	11:45 – 12:15	Prof. Avi Schroeder <i>Professor of Chemical Engineering - Technion</i>	Designing brain-targeted drug delivery systems for treating Parkinson's disease
		12:15 – 12:45	Christophe Delehedde <i>Scientist - Sanofi</i>	Smart delivery: Designing and decoding targeted lipid nanoparticles
		12:45 – 13:15	Stephan Gutmann <i>Senior Scientist Formulation - NovoArc</i>	Applications of Tetraether lipids in nanoparticle formulation
		13:15 – 14:15	LUNCH BREAK	

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At the interface: LNPs meet biology Chair: Shrirang Karve, <i>Global Head of Delivery and Formulations</i> - Sanofi	14:15 – 14:45	Driton Vllasaliu <i>Reader in Biotherapeutics Delivery</i> - King's College London	Extracellular vesicles for oral delivery of RNA
	14:45 – 15:15	Prof. Alexander Kros <i>Prof. of Supramolecular Chemistry</i> - University of Leiden	Enhancing RNA cell specificity with enhanced intracellular delivery
	15:15 – 15:45	Prof. Neill Liptrott <i>Chair Pharmacology and Immunocompatibility</i> - University of Liverpool	Innate immune modulation by lipidic nanoparticles: Balancing safety and efficacy
	15:45 – 16:15	B R E A K	
Panel leader: Talia Shmool	16:15 – 17:00	Prof. Yvonne Perrie Shrirang Karve Alexander Schwenger Prof. Avi Schroeder	Panel discussion
Closing remarks	17:00 – 17:15	Talia Shmool <i>Research Fellow</i> - Imperial College	
	17:15	CONFERENCE END	