Thursday 26 March

08:30	Registration and Refreshments
09:20	Welcome
09:30	(Invited) The shape of early life: primitive cells, primitive compartments **Claudia Bonfio,** University of Cambridge
10:15	Lipid flip-flop regulates the shape of growing and dividing synthetic cells **Rafael Lira**, Tu Delft
10:30	QuantGUV: A Standardised Pipeline for the High-Throughput Characterisation of Encapsulation in Synthetic Cells **Zak Marshall**, University of Surrey
10:45	Coffee Break and Poster Session 1
11:30	(Invited) Microfluidics, automation, and engineered bio membranes as enabling technologies in synthetic cell design **Yuval Elani**, Imperial College London
12:15	Bio-hybrid light harvesting membranes: exploring novel combinations of LH proteins, synthetic pigments, lipids, polymers and quantum dots **Peter Adams**, University of Leeds
12:30	Engineering Artificial Molecular Channels for Switchable Transmembrane Ion and Water Transport **Associate Javid Ahmad Malla**, Francis Crick Institute
12:45	Lunch and Poster Session 1
14:30	(Invited) The catalytic role of membranes in biological pattern formation **Petra Schwille**, Max Planck Institute for Biochemistry
15:15	Wax Esters as Prebiotically Plausible Modulators of Primitive Membranes **Krishnakavya Thaipurayil Madanan**, University of Cambridge
15:30	Characterizing the structure, interactions, and organization of membranized coacervate protocells and developing strategies to control them **Sadaf Javed**, Radboud University
15:45	Tea Break and Poster Session 1
16:30	(Invited) Engineering Hybrid Membranes as Durable Functional Interfaces for Biotechnology and Artificial Cells **Paul Beales**, University of Leeds
17:15	Developing bacterial outer-membrane models – balancing between greater physiological relevance and experimental control **Corrin Blake**, University College London

17:30 Probing the interaction of liposome delivery systems with Gram negative bacterial cell envelopes: a comprehensive investigative approach
Yixuan Yan, University of Birmingham

18:00 Drinks Reception

19:00 Conference Dinner

Friday 27 March

08:30 Arrival Refreshments

09:00 (Invited) Watching Translocation: From Botulinum Toxin to DNA Through Nanopores
Mark Wallace, King's College London

09:45 3D Printed Bioelectronic Model of the Intestinal Tissue Architecture
Maria Lopez Cavestany, University of Cambridge

10:00 Crowding-controlled adsorption and diffusion of streptavidin on supported lipid bilayers
Wanchung Chiang, CNRS LIPHY

10:15 Coffee Break and Poster Session 2

11:00 (Invited) Non-equilibrium giant unilamellar vesicles
Laura Alvarez, University of Bordeaux

11:45 Self-synthesizing artificial cells via enzymatic polymerization
Andrea Belluati, TU Darmstadt

12:00 Membrane prewetting by condensates promotes tight-junction belt formation
Karina Pombo-Garcia, Rosalind Franklin Institute

12:15 Lunch and Poster Session 2

14:00 (Invited) Leveraging Macromolecular Topology and Random Heterogeneity to Design Non-living Predators
César Rodriguez-Emmenegger, Institute For Bioengineering of Catalonia (IBEC) and Catalan Institution for Research and Advanced Studies

14:45 Soft But Tough! Engineering of Protein Nanosheet-Stabilised Microdroplets for Stem Cell Technologies
Julien Gautrot, Queen Mary University of London

15:00 Biomimetic Lipid-Based Lubrication for Therapeutic Solution in Osteoarthritis
Di Jin, Hong Kong City University

15:15 Tea Break and Poster Session 2

16:00	(Invited) Artificial Cells: from Soft Matter to Cell-Like Behaviours **Claudia Contini**, Imperial College London
16:45	Emergent Motility of Self-Organized Particle-Giant Unilamellar Vesicle Assembly **Gaurav Gardi**, Max Planck Institute For Intelligent Systems
17:00	Discriminating cancer and healthy prostate Extracellular Vesicles through membrane rigidity: a Molecular Dynamics approach **Lakshmi Kumar Kunche**, Sapienza University of Rome
17:15	Poster Awards and Closing Remarks
17:30	End