

Biomaterials and Biofabrication Conference 2024 – Workshop May 15th

Opening speech in the Dombalse room

Session 1: Elaboration and characterization of nanoliposome (90 minutes)

Time	Topic	Person in charge	Materials required
08:30 – 09:00	Introduction to nanoliposome	Pr. Emira Arab-Tehrany	-Functional display screen/Conference Room
09:00 – 09:15	Elaboration of nanoliposome	Elaheh Omidvari	Sonication
09:15 – 10:00	Characterization of nanoliposome	<i>Andrianina Christina Rakotoarisoa; Elaheh Omidvari</i>	-DLS -Nanosight -Rheometer

Session 2: Bioprinting and 3D-printing for Biofabrication (120 minutes)

Time	Topic	Person in charge	Materials required
10:00 – 10:45	Introduction to bioprinting	Dr. Ali Tamayol	-Functional display screen/Conference Room
10:45 – 11:00	3D-printing tools for biofabrication strategies	Lindsay Barnum	-3D-printed samples (cell culture inserts, microneedles, molds, Farnoosh's nozzles, etc). -Small freebies to show the definition
11:00 – 11:20	Showcasing CellInk bioprinters and handheld device	<i>CellInk team (pending confirmation)</i> Evelyn Mollocana – Noah Pereira	-Pluronic 30% in DDI ink -GelMA (Medium) -LAP -DPBS -UV Light -Cellink Bioprinter -Handheld device -BD 3ml syringes -Power source
11:20 – 12:00	Hands-on activity 1: Pluronic printing with GelMA casting Hands-on activity 2*: Pluronic printing with different infill patterns and printing parameters <i>*if time is available</i>	Lindsay Barnum, Evelyn Mollocana, Noah Pereira, Dr. Ali Tamayol	-Pluronic 30% in DDI ink -GelMA (Medium) -LAP -DPBS -UV Light -Bioprinter -UV protective Glasses -Different nozzles sizes