

Wednesday, 7th of June		Thursday, 8th of June		Friday, 9th of June	
<b>Opening of CIG17104 Training School</b>					
9h	<b>Welcome to PANDORA CIG</b> <i>Chiara Riganti, Chair of Stratagem Cristina Fornaguera, TS3 Leader</i> <b>Presentation of the speakers</b> <i>Dr. Fornaguera, Dr. Stefanova, Dr. Bastiat</i>	9h	<b>Lesson 5: Dr. Tuna</b> <i>FTIR and RAMAN as analytical characterization techniques</i>	9h	<b>Lab training: In vitro studies of safety and efficacy</b>
9h30	<b>Lesson 1: Dr. Bastiat</b> <i>Lipid nanocapsules for MDR targeting</i>	10h	<b>Lesson 6: Dr. Artigues</b> <i>Use of chromatographic techniques for the analysis of therapeutic nucleic acids</i>		1. <i>Interaction with biologicals: protein corona by gel electrophoresis (Dr. Fornaguera)</i> 2. <i>Safety assessment by in vitro cell viability tests and hemocompatibility (Dr. Stefanova)</i> 3. <i>Uptake and transfection experiments (ExoLabs)</i> 4. <i>Functional tests: antioxidant potential of EVs (ExoLabs)</i>
10h30	<b>Lesson 2: Dr. Fornaguera</b> <i>Polymeric nanoparticles to deliver antitumor nucleic acids</i>	11h	<b>Lesson 7: Dr. Magaña</b> <i>Physico-chemical characterization of nanoformulations: importance of size, surface charge and biocorona</i>		
11h30	<b>Lesson 3: Dr. Tuna</b> <i>Aptamer selection and silica nanoparticles formulations</i>	12h	<b>Lesson 8: Dr. Stefanova</b> <i>Developing safe nanodrugs: focus on in vitro testing</i>		
12h30	<b>Break</b>	13h	<b>Break</b>	13h	<b>Closing remarks - End of the day</b>
13h30	<b>Lesson 4: ExoLab</b> <i>Extracellular vesicles as natural delivery systems</i>	14h	<b>Lesson 9: Dr. Fornaguera</b> <i>Nanoparticle uptake and transfection studies</i>	<b>Barcelona – SPAIN</b> <b>June 7<sup>th</sup> – 9<sup>th</sup>, 2023</b>	
14h30	<b>Lab training: Nanoformulation</b> <i>Dr. Fornaguera, Dr. Bastiat and Dr. Tuna</i>  1. <i>Lipid nanoparticles</i> 2. <i>Polymeric nanoparticles</i> 3. <i>Functionalized silica NPs for aptamer conjugation</i>	15h	<b>Lab training: Physic-chemical characterization at the nanoscale</b> <i>Dr. Fornaguera, Dr. Tuna</i>  1. <i>Chemical techniques: FTIR, RAMAN</i> 2. <i>Chromatographic</i> 3. <i>Size characterization: DLS, NTA</i> 4. <i>Surface charge characterization: DLS</i>		
17h	<b>End of the day</b>	17h30	<b>End of the day</b>		