

Translational research in MDR: how to move from preclinical research to clinical benefits

Blended Intensive Programme

PRACTICAL COURSE: 26-05 to 30-05-2025 (FMUC)

	Monday – 26 th May		Tuesday – 27 th May		Wednesday - 28 th May	Thursday– 29 th May	Friday – 30 th May
9:30	Registration & Opening Session	9:30	Lesson IV How to study MDR: cellular and molecular studies – Part II . Molecular Biology Approaches (RA; MP) . In silico studies (JS)	9:30	Lesson VII Big data analysis in oncology research and clinical applications (BO; FC)	9:30	Social and scientific event
9h45	Lesson I Overview of drug resistance mechanisms (ABSR)						
10h30	Coffee break	11:00	Coffee break	10:45	Coffee break		
10h45	Lesson II Metabolism and drug resistance (PO)	11:15	Lesson V Liquid biopsies in oncology – A review (HV)	11:00	Lesson VIII Artificial intelligence (AI) in multidrug resistance phenotype in cancer (JA; PD)		11:00
11:30	Lesson III How to study MDR: cellular and molecular studies – Part I . Microscopy and flow cytometry (HG; ACG)	12:00	Lesson VI Clinical applications of liquid biopsies – Role in monitoring measurable residual disease (CG)				Lesson IX Case discussion and evaluation (ABSR; SS; SD; EG: All participants)
12h30	Lunch Break	12h30	Lunch Break	12h30	Lunch Break	13:00	Lunch Break Concluding remarks (ABSR; SS; SD; EG)
14h00	Lab Training – Lab Groups (LG) LG I – Viability and Proliferation Assays (RA) LG II – Flow cytometry Studies (ACG)	14h00	Lab Training – lab groups (LG) LG III – Tumor educated platelets (TEPs) and Cell-free DNA (cfDNA) (JJ) LG IV – Extracellular vesicles (EVs) (HG; TR; CX)	14h00	Lab Training – Lab groups LG V – <i>In silico</i> studies (JS + ?) LG VI – Big data analysis and AI (BO; FC)	14:30	Social and scientific event

ABSR- Ana Bela Sarmiento Ribeiro, MD, PhD (FMUC); PO- Paulo Oliveira, PHD (to be confirmed); ACG – Ana Cristina Gonçalves, PhD (FMUC); Henrique Girão, PhD (FMUC); RA – Raquel Alves, PhD (FMUC); MP – Miguel Pires, Msi (FMUC); JS- Jorge Salvador, PhD (FFUC); HV – Helena Vasconcelos, PhD (FFUP); Catarina Galdes, MD, PhD (FMUC); JJ – Joana Jorge, MSci (FMUC); TG – Teresa Rodrigues, PhD (FMUC); CX- Cristina Xavier, PhD (i3S); BO – Bárbara Oliveiros, PhD (FMUC); FC – Francisco Caramelo, PhD (FMUC); JA – Joel Arrais, PhD (FCTUC); PD- Paulo Donato, MD, PhD (FMUC); SS- Simona Saponi, PhD (SU); SD – Soner Dogan, PhD (YU); EG – Elisa Gionavani, MD, PhD (AUMC)