

PhD Advanced Course		Molecular Biomarkers and Technologies		14-18 October 2024	
Zoom:Link					
				DIGITAL BIOMARKERS, MACHINE LEARNING AND WEARABLE DEVICES	
				Chairs: Maria João Nunes, André Santos	
				9:00 <i>Biomarker discovery using machine learning</i>	
				Alejandro Ricon, Utrecht University	
				10:00 <i>TBA</i>	
				Cristina Santos, Universidade do Minho	
				11:00 <i>Identifying prognostic biomarkers in oncology and rheumatology using sparse regularized models</i>	
				Susana Vinga, Instituto Superior Técnico	
09:50 OPENING REMARKS					
Elsa Rodrigues, Marta Afonso					
10:00 <i>Use of 3D models for the identification of regenerative mechanisms in human liver</i>		10:00 HANDS ON OMICS: APPLICATIONS OF GENOMICS AND TRANSCRIPTOMICS IN BIOMARKER RESEARCH CLASSROOM CLASS			
Volker Lauschke, Karolinska Institute		Marta Afonso			
BIOMARKERS AT A GLANCE					
11:00 <i>What is a biomarker?</i>					
Marta Afonso, Fac. Pharmacy Universidade de Lisboa					
BIOMARKERS IN NEUROSCIENCES - I					
12:00 <i>What transcriptomes tell us about stressed human cells</i>					
Nuno Barbosa Morais, IMM, Unversidade de Lisboa				BIOMARKERS IN REGENERATIVE MEDICINE AND METABOLIC DISEASES - I	
				Chairs: Maria João Nunes, Andreia Neves- Carvalho	
				13:00 <i>Single-cell and spatial omics of oligodendroglia in development and in disease</i>	
				Gonçalo Castelo-Branco, Karolinska Institute	
BIOMARKERS IN NEUROSCIENCES - II		BIOMARKERS IN CANCER			
Chairs: Elsa Rodrigues Maria João Nunes		Chairs: Elsa Rodrigues, Vanda Marques			
14:00 <i>Sex and gender precision medicine for brain and mental health</i>		14:00 <i>TBA</i>		14:00 WORKSHOP 2	
Antonella Santucciione Chadha, Women's Brain Foundation		Omid Hamid, Cedars-Sinai Medical Center		BIOMARKER PROFILING IN COLORECTAL CANCER: BRIDGING BENCH TO BEDSIDE	
15:00 <i>Biomarkers in neurodegenerative diseases – progress and opportunities</i>		14:00 <i>Liquid biopsy biomarkers for the risk stratification and early diagnostic of biliary track tumours</i>		Vanda Marques	
Amanda Heslegrave, University College London,		Pedro Rodrigues, Biodonostia Health Research Institute			
16:00 <i>Guidelines for the prepartion of the written assignment</i>		16:00 <i>Identifying patients for targeted therapies in oncology</i>			
Elsa Rodrigues		Marta Martins, IMM, Universidade de Lisboa			
				18:00 <i>Student tutorials</i>	
				Elsa Rodrigues	