Medicinal Chemistry and Chemical Biology Strategies for Drug Discovery 2025:

From Fragment Screening to Chemical Probes for Target Identification and Imaging

	June 30	July 1	July 2	July 3	July 4
9:15	Session: Drug Discovery	Session: Drug Discovery	Session: Chemical Probes in Medicinal Chemistry	Session: Chemical Probes in Medicinal Chemistry	Session Probes for Imaging & Closing Lecture
9:30	***Opening Lecture:*** *Riding the Waves of Change: A Personal Journey Through Pharma* (Luc Van Hijfte, Novalix, FR) on-line	*Ligand discovery for proline selective proteases involved in oncology* (Pieter Van der Veken, Antwerp, BE)	*Activity-Based Probes to directly interrogate protein function within complex proteomes.* (Rita Felix, FFUL)	*Expanding the chemical space of bioactive natural products* (Olga Genilloud, MEDINA Foundation, ES)	*Discovering imaging agents for the brain* (Yves Auberson, Novartis, CH)
10:30	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:00	*Emerging Therapeutic Modalities That Are Reshaping Modern Medicine* (Rui Moreira, FFUL)	*Autophagy modulation: inhibitors, activators and tissue-selective modulators* (Pieter Van der Veken, Antwerp, BE)	*(Photo)Affinity-Based Probes in Target ID* (Ana Ressurreição, FFUL, PT)	*Bioconjugates in Drug Discovery (*Pedro Góis, FFUL)	***Closing Lecture****: The Discovery of LML134, an H3R Inverse Agonists for Narcolepsy* (Yves Auberson, Novartis, CH)
12:00	*Lunch and Networking*	*Lunch and Networking*	*Lunch and Networking*	*Lunch and Networking*	*Lunch and Networking*
14:00	*Structure-Based Drug Design (*Rita Guedes, FFUL)	*AI: Challenges & opportunities in Drug Discovery (*Tiago Rodrigues, FFUL) on-line	*Development of Chemical Probes to Unravel the Biology of Necroptosis* (Rui Moreira, FFUL)	*Unlocking Tumor Suppression: The p53-MDM2/X protein-protein interactions as Therapeutic Targets* (Maria Santos, FFUL)	Assignment presentations
15:00	*Virtual Screening in Probe and Drug Discovery (*Rita Guedes, FFUL)	Hand-on session on *in silico* strategies	Hands-on session using LC-MS: working with proteins	Hands-on session using SPR: working with proteins	
16:00	Coffee break	Hand-on session on *in silico* strategies	Hands-on session using LC-MS: working with proteins	Hands-on session using SPR: working with proteins	
16:30	Meeting with PhD candidates – Assignment and Evaluation criteria	Hand-on session on *in silico* strategies	Hands-on session using LC-MS: working with proteins	Hands-on session using SPR: working with proteins	
17:30	Welcome reception				