Summer School on Pharmaceutical Analysis 2024

New therapeutic approaches, new analytical challenges: peptide- and protein-based drugs

Scientific Program

18th September 2024					
13.30-14.30	Registration	Registration			
14.30-15.00	Opening ceremony	Opening ceremony			
	Chair: Manuela Ban	Chair: Manuela Bartolini			
15.00-16.00	Opening Lecture	Quality control on novel biotech drugs: just routine or real science?	Luigi Colombo Medical Technology Lab, Milano, Italy		
	Chair: Giancarlo Ald	Chair: Giancarlo Aldini			
16.00-17.00		Biological Quality Control in Biotechnological Products: Innovative Approaches and regulatory guidelines updates	Marzia Scalarone Merck R.B.M., Ivrea, Italy		
17.00-18.00		Analysis of 'High-Risk' Host Cell Proteins (HCP)	Ettore Giraldoni Philochem AG, Zurich, Switzerland		
20.00	Social dinner	Social dinner			

19th September 2024				
	Chair: Marina Naldi			
08.30-9.30		The analytical toolbox & the protein wonderland: deep dive into the early stages of drug discovery	Barbara Pioselli Chiesi Farmaceutici, Italy	
9.30-10.30		Characterization of Therapeutic Peptides, Proteins, and Monoclonal Antibodies	Nazim Mekaoui Novartis Pharma AG, Basel, Switzerland	
10.30-11.00	Coffee break			
	Chair: Massimo Bred	la		
11.00-12.00		Analytical Characterization and Bioanalytical Assays for Antibody Drug Conjugates Development	Federico Riccardi Sirtori Merck R.B.M., Ivrea, Italy; an affiliate of Merck KGaA, Darmstadt, Germany	
12.00-12.35		Trastuzumab and its ADCs: the Impact of Conjugation on Stability and Functionality	Martino Benvenuti NanoTemper Technologies, Munich, Germany	
12.35-13.40	Lunch break			
	Chair: Luca Regazzoni			
13.40-14.40		Glycosylation analysis studies	Caterina Temporini University of Pavia, Pavia, Italy	
14.40-15.40		Method Development and Validation of Ligand Binding Assays Using Biological Matrices	Elena Piccoli, Frontage Europe S.r.l., Nerviano, Italy	
15.40-16.10	Coffee break			

	Chair: Francesco Epifano		
16.10-17.10	PhD presentations	Bioactive compounds from non- psychoactive Cannabis sativa L. as innovative therapeutic agents against cancer cell proliferation and oxinflammation Novel approach for assessing the GPx-like activity of natural and semisynthetic compounds: a revised version of the Iwaoka's assay Valorization of by-products from agri-food supply chains for the development of functional	Clarissa Caroli University of Modena and Reggio Emilia, Modena, Italy Chiara Collevecchio University of "G. D'Annunzio" of Chieti-Pescara, Chieti, Italy Larissa Della Vedova Università degli Studi di Milano, Milan, Italy
		ingredients and nutraceuticals	, ,
20.00	Piadina dinner		

20th September 2024				
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9.00-10.00	Chair: Caterina Tem	Immunogenicity Evaluation in Drug Development	Francesca Morandini Aptuit (Verona) S.r.l, an Evotec Company, Italy	
10.00-11.00		Multi-Attribute Method: implementation, challenges and applications	Sara Carillo NIBRT National Institute for Bioprocessing Research and Training	
11.00-11.30	Coffee break	· · · · · · · · · · · · · · · · · · ·		
11.30-12.05	Case study	Analysis of mHTT (mutant protein of Huntington disease) to support clinical studies	Silvia Lorenzi Aptuit (Verona) S.r.l, an Evotec Company, Italy	
12.05-13.10		Lunch break		
	Chair: Manuela Barto			
13.10-14.10		Plasma-derived product stability study design. Evaluation of shelf life, comparability approach to support process/product changes post-licensure, lean approach	Ciro Battaglia Kedrion S.p.A, Italy	
	Chair: Alberto Massa	protti		
14.10-15.50	PhD presentations	Leveraging cross-linking mass spectrometry for modeling antibody-antigen complexes	Andrea Di Ianni University of Turin, Torino, Italy; Merck Serono RBM S.p.A., an affiliate of Merck KGaA, Darmstadt, Germany	
		Development of an advanced analytical platform for the characterization of recombinant human collagen produced by yeasts for therapeutic use	Martina Lioi University of Pavia, Pavia, Italy	
		Valorization of by-products from agri-foods for pharmaceutical, cosmetics, and nutraceutical applications	Cristina Terenzi Alma Mater Studiorum University of Bologna, Rimini, Italy	
		Recombinant protein analysis using innovative orthogonal characterization techniques	Isabella Senini University of Pavia, Pavia, Italy	
		Application of omics approaches in drug discovery and biomarker identification	Beatrice Zoanni Università degli Studi di Milano, Milan, Italy	
15.50-16.10	Closing remarks			