

Summer School on Pharmaceutical Analysis 2024

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

Preliminary Scientific Program

18th September 2024			
13.00-14.00	Registration		
14.00-14.30	Opening ceremony		
	<i>Chair: Manuela Bartolini</i>		
14.30-15.30	Opening Lecture	Quality control on novel biotech drugs: just routine or real science?	Luigi Colombo Medical Technology Lab, Milano, Italy
	<i>Chair:</i>		
15.30-16.30		Biological Quality Control in Biotechnological Products: Innovative Approaches and regulatory guidelines updates	Marzia Scalarone Merck R.B.M., Ivrea, Italy
16.30-17.30		Analysis of 'High-Risk' Host Cell Proteins (HCP)	Ettore Giraldoni Philochem AG, Zurich, Switzerland
17.30-17.50	PhD Presentation	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
20.00	<i>Piadina Dinner</i>		

19th September 2024			
	<i>Chair:</i>		
09.00-10.00		The analytical toolbox & the protein wonderland: deep dive into the early stages of drug discovery	Barbara Pioselli Chiesi Farmaceutici, Italy
10.00-11.00		Characterization of Therapeutic Peptides, Proteins, and Monoclonal Antibodies	Nazim Mekaoui Novartis Pharma AG, Basel, Switzerland
11.00-11.30	<i>Chair:</i>		
11.30-12.30		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
12.30-13.10	Case study	Trastuzumab and its ADCs: the Impact of Conjugation on Stability and Functionality	Vincenzo Pisapia NanoTemper Technologies, Munich, Germany
13.10-14.10	<i>Lunch break</i>		
	<i>Chair:</i>		
14.10-15.10		Glycosylation analysis studies	Caterina Temporini , University of Pavia, Pavia, Italy
15.10-16.10		Method Development and Validation of Ligand Binding Assays Using Biological Matrices	Elena Piccoli , Frontage Europe S.r.l., Nerviano, Italy
16.10-16.40	<i>Coffee break</i>		

	<i>Chair:</i>		
16.40-17.40	PhD presentations	Bioactive compounds from non-psychoactive Cannabis sativa L. as innovative therapeutic agents against cancer cell proliferation and oxinflammation	Clarissa Caroli , University of Modena and Reggio Emilia, Modena, Italy
		Novel approach for assessing the GPx-like activity of natural and semisynthetic compounds: a revised version of the Iwaoka's assay	Chiara Collevocchio , University of "G. D'Annunzio" of Chieti-Pescara, Chieti, Italy
		Valorization of by-products from agri-food supply chains for the development of functional ingredients and nutraceuticals	Larissa Della Vedova , Università degli Studi di Milano, Milan, Italy
20.00	<i>Social dinner</i>		

20th September 2024

	<i>Chair:</i>		
9.00-10.00		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
11.00-11.25	<i>Coffee break</i>		
11.25-12.00	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
12.00-13.00		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
13.00-14.00	<i>Lunch break</i>		
	<i>Chair:</i>		
14.00-14.35	Case study	TBD	TBD Chiesi Farmaceutici, Italy
14.35-15.10		Regulatory issues	TBD
	<i>Chair:</i>		
15.10-16.30	PhD presentations	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
16.30	<i>Closing remarks</i>		