SSX 2024 Conference Agenda

Day 1: 1st February 2024 | Hall A - The Health Sciences Library

Time	Session	Topic	Speaker	Co-Chairs
08:30 - 10:00	Registration & Breakfast			
10:00 - 11:05	Overview of Non-Clinical Toxicology in Drug Discovery and Development	Introduction to Nonclinical Toxicology in Drug Discovery and Development	Avinash Jadhav; Syngene International Ltd, India	Avinash Jadhav
11:05 - 11:25		Coffee/Tea Break		
11:25 - 12:30		Influence of physicochemical and ADME-PK properties on toxicology outcomes	Shekar Chelur; Aurigene Oncology Ltd, India	
12:30 - 13:30		Lunch Break		
13:30 - 14:35		Use of Artificial Intelligence (AI) Tools for Predicting Toxicity of Pharmaceuticals	Varun Ahuja; Syngene International Ltd, India	
14:35 - 14:55		Coffee/Tea Break		
14:55 - 16:00		Safety Pharmacology Assessment in Drug Development	M. R. Srinivasan; Tamilnadu Veterinary & Animal Sciences, India	

Day 1: 1st February 2024 | Hall B - The Health Sciences Library

Time	Session	Topic	Speaker	Co-Chairs
08:30 - 10:00	Registration & Breakfast			
10:00 - 10:30	Application of Pharmacometrics in drug development decisions	Introduction and Demonstration of PumasCP	Vijay Ivaturi; Pumas-AI Inc, USA, Keshav Sannala; Pumas-AI Inc, USA	Tejashree
10:30 - 11:15		Hands-on exercise to perform Non-Compartmental Analysis		
11:15 - 11:30		Coffee/Tea Break		
11:30 - 12:30		Introduction to Basic Pharmacokinetics		
12:30 - 13:00		Case study 1: Presentation		
13:00 - 14:00		Lunch Break		
14:00 - 15:00		Case study 1: Hands-on exercise		
15:00 - 15:30		Case study 2: Presentation		
15:30 - 15:45		Coffee/Tea Break		
15:45 - 16:45		Case study 2: Hands-on exercise		

Day 1: 1st February 2024 | Hall C - Centre for Microfluidics, Biomarkers, Photoceutics & Sensors (µBioPS), Academic Block 2, MIT

Time	Session	Topic	Speaker	Co-Chairs
08:30 - 10:00	Registration & Breakfast			

Time	Session	Topic	Speaker	Co-Chairs
10:00 - 16:00	HepaRG ***Participation is by invitation only*	HepaRG- the unique human hepatic cell model: cell culture basics and characterisation	Subileau Eva-Anne, Pamela Bachour El Azzi, Shraddha Singh Gautam	Shashyendra Singh Gautam

Day 2: 2nd February 2024 | Dr. TMA Pai Halls

Time	Session	Topic	Speaker	Co-Chairs
07:30 - 08:30	**Registration & Breakfast**			
08:30 - 09:00	Inauguration			
09:00 - 09:45	Keynote	ADMET Science – Applications in Drug Discovery and Development	Raju Subramanian; Gilead Sciences, USA	Anandi Karumbati
09:45 - 10:15	Application of AI/ML to predict ADMET	Chemistry-Inspired AI/ML Approaches in Developing Novel Drug Molecules.	Nirav Bhatt; Indian Institute of Technology Madras, India	Krishna Iyer, Ashok Raj
10:15 - 10:45		Case studies of the impact of modeling in novel drug development: going beyond trial & error	Rukmini Kumar; Vantage Research, India	
10:45 - 11:00		*Sponsor Talk (Corning)*	Gurwinder Saini; Corning	
11:00 - 11:15		*Sponsor Talk (Syngene) - Understanding the metabolic liability on discovery of Proteolysis Targeting Chimeras (PROTACs): A case study*	Amol Raje; Syngene	
11:15 - 11:30	**Coffee/Tea Break**			
11:30 - 12:00		Machine Learning Models in Predicting Activity Cliffs	Manoranjan Panda; Bristol Myers Squibb, India	
12:00 - 12:15		*Sponsor Talk (Biopredic Advancecells) - From HepaRG™ to HepaSH™: a fit for purpose set of cell systems for hepatic modeling and DILI prediction*	Pamela Bachour El Azzi; Biopredic Advancecells	
12:15 - 12:30	Young investigator/ Student oral presentation	Studies on the mode of inhibition of CYP activities by thaumatin	Kavita Raikuvar	Indu Pal Kaur, Vishwottam Kandikere
12:30 - 12:45		Role of Gut derived secondary metabolites during Organophosphate induced Diabetic Cardiomyopathy	Shalini. P	
12:45 - 13:00		Predicting human equivalent doses of azole fungicides from zebrafish toxicity data using physiologically based toxicokinetic modelling: An alternative to animal model approach	C. Yahavi	
13:00 - 13:15		Exploring herb drug interactions: Assessing the Impact of Foxtail Millet on Glicazide in normal rats	Asha Nandabaram	
13:15 - 13:30	Panel Discussion			
13:30 - 15:00	**Lunch, Poster & Exhibitor Session**			

Time	Session	Topic	Speaker	Co-Chairs
15:00 - 15:30	Emerging methods in translational ADME for personalized medicine

** Coffee/Tea will be available throughout the session | Use of Modelling and Simulation, Therapeutic Drug Monitoring, and Innovative Regulatory Approaches to Expedite Approval of a New Leukaemia and Lymphoma Drug | Punam Sandhu; Jazz Pharmaceuticals, USA | Pratima Srivastava, Sheelendra Pratap Singh |
15:30 - 16:00		Model Informed Drug Optimization (MIDO): Approach to Address Antimicrobial Resistance (AMR)	Gauri Rao; University of Southern California, USA	
16:00 - 16:30		Leveraging power of quantitative metabolomics in drug-drug interaction prediction and precision medicine	Bhagwat Prasad; Washington State University, USA	
16:30 - 17:00		Prediction of Pharmacokinetics of the targeted anti-cancer agent Pracinostat, an HDAC inhibitor, in Humans: Comparison of PBPK modelling versus Allometry	Ramesh Jayaraman; TheraIndx Lifesciences Pvt Ltd, India	
17:00 - 17:15	Panel Discussion			
17:30 - 18:15	*Travel to Banquet place: Buses leave from the venue to the Banquet place at 17:45, reaching at 18:15*			
18:30 - 19:30	**Cultural Programme**			
19:30 - 21:00	**Networking & Banquet**			

Day 3: 3rd February 2024 | Dr. TMA Pai Halls				
Time	**Session**	**Topic**	**Speaker**	Co-Chairs
07:30 - 09:00	**Breakfast**			
08:00 - 09:00	Young Investigator session			Krishna Iyer, Bhagwat Prasad, Shashyendra Singh Gautam
09:00 - 09:45	Keynote	In Vitro Models for Prediction of Clinically Relevant Botanical – Drug Interactions.	Kenneth R. Brouwer; BioIVT, USA	Arti Thakkar
09:45 - 10:15	Challenges and advancements in herbal drug development	Quantum dot and RGD peptide-decorated docetaxel-curcumin codelivery theragnostic system for breast cancer: in vitro and in vivo efficacy and toxicity studies.	Indu Pal Kaur; Panjab University, India	Geetha T, Amol Raje
10:15 - 10:25		*Sponsor Talk (Intra Globus Biosystems)*	Sankar Rajendran; Intra Globus Biosystems	
10:25 - 10:35		*Sponsor Talk (Sciex)*	Rahul Baghla; Sciex	
10:35 - 10:45		*Sponsor Talk (Aragen Life Sciences)*	Pratima Shrivastav; Aragen Life Sciences	
10:45 - 11:30		**Group Photo**		
11:30 - 11:45		**Coffee/Tea Break**		

11:45 - 12:15		Progress in Natural Product Drug Discovery: Advancements and Focus on Pharmacokinetics	Govindarajan Raghavan; Kapiva, India	
12:15 - 12:45		Agrochemicals (Xeno-) induce diabetic cardiomyopathy in farmers: Can epitranscriptome provide novel insights?	Subbaiah Ramasamy; Madurai Kamaraj University, India	
12:45 - 13:00		Panel Discussion		
13:00 - 14:30	**Lunch, Poster & Exhibitor Session**			
14:30 - 15:00	Advancement in prediction of Drug induced toxicity *** Coffee/Tea will be available throughout the session*	HLA-dependent drug hypersensitivity: latest findings from animal models	Kousei Ito; Chiba University, Japan	Praveenkumar Shetty, Francis Michael
15:00 - 15:30		Unveiling the Safety Shield: Exploring the Significance of General Toxicology Studies in Drug Development	Venkatesha Udupa; Glenmark Pharmaceuticals, India	
15:30 - 15:45		*Sponsor Talk (Sai Life Sciences) -* Development of in vitro model of PFIC2 by virally transducing a human variant of BSEP transporter in MDCK cell line	Arojit Mitra; Sai Life Sciences	
15:45 - 16:15		Drug induced liver toxicity - Implications in clinical practice	Suresh Raghaviah; Apollo Hospitals, India	
16:15 - 16:30		Panel Discussion		
16:30 - 17:00	**Awards & Conclusion**			
	Refreshments			