3rd BioTX ADME Workshop

ADME of Protein Therapeutics: Science and Application
August 6, 2017 | Buffalo, NY

Workshop Goals

• To provide an overview of the determinants of ADME (Absorption, Distribution, Metabolism/Catabolism, Excretion) for protein therapeutics, nucleic acid drugs, and T-cell therapies
• To discuss methods of quantification of biologic agents in blood and in tissues
• To discuss applications of modeling and simulation to predict and/or to characterize the ADME of BioTx
• To discuss advances in methods for efficient, targeted delivery of protein and nucleic acid drugs

Topics Include:

• ADME principles and technologies
• Mechanistic PKPD modeling for BioTx
• Bispecific mAb and BiTE ADME / PKPD
• CAR-T Therapy ADME and PKPD
• Novel delivery strategies for proteins, peptides, and nucleic acid drugs

Presenters & Organizers

University at Buffalo  Janssen
U. Pittsburgh  Amgen
Eli Lilly  Bayer
Roche  Pfizer
Genentech  Roswell Park CI
West Virginia University
Preliminary Program

Session 1: Advances in methods of BioTx Analysis
Chair: Dr. Wolfgang Richter (Roche)
8:30 Introduction (Dr. J. Balthasar, UB)
8:40 Challenges and opportunities in the use of LCMSMS for bioanalysis of novel constructs (Dr. J. Qu, UB)
9:20 Application of imaging for the assessment of the disposition of biotherapeutics (Dr. Donald Heald, Janssen)
9:45 Coffee Break

Session 2: Bispecific mAb and BiTE ADME & PKPD
Chairs: Dr. Weirong Wang (Janssen), Dr. Dhaval Shah (UB)
10:05 Translational PKPD for bispecifics/FIH Dosing (Dr. Andreas Baumann, Bayer)
10:30 Determinants of bispecific pharmacodynamics (Dr. J. Rhoden, Eli Lilly)
11:00 PKPD modeling of T cell redirecting bispecific mAb (Dr. Xiling Jiang, Janssen)
11:30 Site-specific TMDD models for bispecific antibodies (Dr. John Harrold, Amgen)
12:00 – Lunch Break

Session 3: T-cell Therapies: ADME & PKPD
Chairs: Dr. Dan Rock (Amgen), Dr. Denise O’Hara (Pfizer)
1:30 ADME considerations for biotherapeutic drugs and cell-based therapies (Dr. Mengmeng Wang, Pfizer)
2:00 Biodistribution of genetically engineered T lymphocytes (Dr. Richard Koya, Roswell Park Cancer Inst.)
2:30 Modeling and simulation of T-Cell control of tumor growth (Dr. David Klinke II, West Virginia University)
3:00 Coffee Break

Session 4: Novel Delivery Strategies for Proteins, Peptides, and Nucleic Acid Drugs
Chairs: Dr. Jerome Hochman (Merck), Dr. Juliane Nguyen (UB)
3:30 Exo-codes for enhanced exosome loading (Scott Ferguson, UB)
4:00 Liposomal delivery strategies to minimize development of ADA (Dr. Sathy Balu-Iyer / Fiona Yau, UB)
4:30 Programmable polymeric carriers for gene and drug delivery (Dr. Song Li, U. Pittsburgh)
~5:00 ADME BioTx Picnic, Courtyard adjacent to Kapoor Hall

Registration Information

Fee: Industry participants $100. Fee is waived for registrants from academia, however registration must be submitted (online).
Payment Information: Payment and registration may be submitted online via: http://pharmacy.buffalo.edu/ADME/
Workshop Location: University at Buffalo, South Campus, 190 Kapoor Hall. Lunch, break-time refreshments, and picnic will be provided.
Accommodations: Ramada Inn (716) 636-7500, Marriott Hotel (716) 689-6900, or DoubleTree (716) 689-4414.
Registration Deadline: July 28th, 2017