JULY 28, 2025: UNIVERSITY AT BUFFALO
SCHOOL OF PHARMACY AND PHARMACEUTICAL SCIENCES

Seventeenth Annual Symposium
Center for Protein Therapeutics

Agenda

8:50	Introduction to the Annual CPT Symposium (J. Balthasar)
9:00	Integration of scRNA-seq data and bivalent binding kinetic PBPK models to predict the disposition of bispecific antibodies (Balthasar Lab)
9:30	Investigating the effect of FcRn blockade on subcutaneous (SC) absorption of antibodies (Shah Lab)
10:00	Quantitative investigation of the biodistribution and dynamics of ADC, free toxin, antigen and associated markers in cell surface, endosome/lysosome, and interstitial space (Qu Lab)
10:30	Break
11:00	Evaluation of Determinants for Tissue PK and Efficacy of siRNA Therapeutics (Woo Lab)
11:20	Sequence and Structure Analysis of Antibody-Based Drugs to Predict Pharmacokinetics Across Species using Hybrid mPBPK-NN Modeling (Mager Lab)
11:40	Development of a query able immunogenicity database to aid prediction, biologics discovery and development (Balu-Iyer Lab)
12:00	Break
1:00	Evaluating Strategies to Enhance Endolysosomal Escape of Antibody-siRNA Conjugates (Woo Lab)
1:20	PK/PD of Fragment-Drug Conjugates (FDCs) (Shah Lab)
1:40	Tumor Organoid on Chip to Optimize T Cell Therapy (Lao Lab)
2:00	Development of Dose-Exposure Relationship for Lipid Nanoparticle (LNP) Mediated Delivery of mRNA-Encoded Monoclonal Antibodies (Shah Lab)
2:20	Pharmacokinetics of MMAE-Based ADC in Peripheral Nerves (Shah Lab)
2:40	Break
3:10	Tissue Disposition of Antibodies with Enhanced Effector Function (Shah Lab)
3:30	An in-depth, comprehensive investigation of the temporal characteristics of >10,000 proteins in isolated immune cells and plasma following CAR T-cell treatment in a large clinical sample cohort (Qu Lab)
3:50	PBPK Model to Characterize Maternal to Fetal Transfer of Antibody-Based Therapeutics (Shah Lab)
4:10	Prediction of Immunogenicity (ImmPred) of Biologic constructs containing unnatural amino acid (Balu-Iyer Lab)
4:30	Investigation of Alzheimer's disease across space and time: studying the temporal impact of disease progression and mAb treatment on intra-brain distributions of markers and phosphorylation states (Qu Lab)
4:50	Cellular and spatial proteomic assessment of antigen-specific immunotherapy (Lovell Lab)
5:10	Concluding Remarks (J. Balthasar)

There is no fee for the Symposium for members of CPT Consortium Sponsors or for students, fellows, or faculty of the University at Buffalo. Please register by July 21, 2025.

Registration link: https://sppsbuffalo.formstack.com/forms/cpt_symposium

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