



# ADME of Protein Therapeutics Introductory Workshop

## Scientific, Technical Concepts and Case Studies

August 15, 2011 • Buffalo, NY

**The workshop is organized with the  
Center for Protein Therapeutics (CPT), SUNY Buffalo  
To be held in conjunction with the CPT 3<sup>rd</sup> annual meeting**

### Topics Include:

- **ADME principles and technologies**
- **Molecular properties determining ADME**
- **Mechanistic ADME studies**
- **Case examples in oncology, immunology and other areas!**

**Submit your abstract now!**  
**Spaces are limited, register now!**

See next page for agenda, registration and abstract submission information.

For more information about CPT, visit:

<http://www.acsu.buffalo.edu/~jb/CPT1.htm>



Several factors collectively determine the ADME (Absorption, Distribution, Metabolism/Catabolism, Excretion) properties of therapeutic proteins, including tissue characteristics (e.g. vascular and interstitial volumes, vascular permeability, target expression level, blood flow rate, antigen density, interstitial fluid pressure) and molecular characteristics (e.g. charge, size, binding affinity, and dose). A thorough understanding of the pharmacokinetics (PK) and biodistribution of therapeutic proteins is beneficial for development plans.

### Workshop Goals

- To provide an overview of the recent literature and thinking regarding use of ADME principles and technologies for protein therapeutics
- To provide an overview of various available technologies to study ADME sub-processes for various protein therapeutics
- To discuss the potential benefit of mechanistic studies of protein therapeutics
- To discuss the use of various techniques for studying PK and tissue distribution of large molecules
- To discuss challenges encountered by academia and industry during the use and application of methodologies from animal models to the clinic

# Workshop Agenda

## Introductory Session

- 8:30 ADME of Protein Therapeutics - Workshop Introduction  
(Dr. Joseph Balthasar, UB)
- 8:40 ADME – What Have we Learned from Small Molecules  
(Dr. Thomayant Prueksaritanont, Merck)
- 9:10 **Keynote Speaker:** Simplified Models and Scaling Analysis  
Approaches to Study Drug Disposition and Guide Design of Target Agents
- 9:50 Coffee Break

## Science & Technology Session

- 10:10 Factors Influencing PK and Tissue Distribution of Protein Therapeutics  
(Dr. Leslie Khawli, Genentech)
- 10:50 Investigation of Tissue and Tumor Distribution of mAb: Modulating  
Determinants of Disposition with Drugs and Knockout Mice  
(Lubna Abuqayyas, UB)
- 11:20 Tissue Distribution Studies Using Molecular Probes: Molecular Imaging  
(Dr. Simon Williams, Genentech)
- 12:00 Lunch Break

## Oncology Session

- 1:00 Effect Compartment Distribution – Tumor Case Examples  
(Dr. Andy Boswell, Genentech)
- 1:40 Oncology: ADC - ADME Challenges (Dr. Steve Alley, Seattle Genetics)
- 2:20 Coffee Break

## Immunology Session

- 2:40 ADME Studies for Immunology Indications (Dr. Yulia Vugmeyster, Pfizer)
- 3:20 ADME of Biologics - Future Perspectives (Dr. Xin Xu)

## Conclusion

- 4:00 Workshop Wrapping-Up (Dr. Frank-Peter Theil, Genentech)
- 4:10 Poster Session
- 6:00 Workshop Picnic (UB)

### Keynote Speaker



**Professor K. Dane  
Wittrup, MIT**

### Registration Information

**Workshop Location:** The workshop will be held at the University at Buffalo, North Campus 121 Cooke hall. Lunches and break-time refreshments will be provided.

**Poster Presentation:** To participate in poster presentation, submit your abstract to [ADMEBIOTX@gmail.com](mailto:ADMEBIOTX@gmail.com) by August 1<sup>st</sup>, 2011.

**Fee:** Individual registration fee: Industry participants \$100.

Fee is waived for registrants from academia, however registration must be submitted.

Payment information: University at Buffalo Foundation Inc. Bank transfers and credit card payments are accepted as well as checks.

**Registration:** Please register by filling out the registration form and returning to the address shown below. Confirmation of registration will be returned upon receipt. Spaces are limited, so register now!

**Registration Deadline:** August 1<sup>st</sup>, 2011

**Accommodations:** Ramada Inn & Conference Center, 716-636-7500 ,Marriott Hotel, 716-689-6900 or Indigo Hotel, 716- 689-4414.

### REGISTRATION FORM

Name: \_\_\_\_\_

Organization: \_\_\_\_\_ Address: \_\_\_\_\_

City: \_\_\_\_\_ State/Country: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

For credit card payment: Please circle:    Visa            Mastercard            American Express            Discover

Credit card number: \_\_\_\_\_

Expiration Date: \_\_\_\_\_ Signature \_\_\_\_\_