PHARMACOKINETICS & BIOPHARMACEUTICS MODELING: ADVANCED COURSE

November 21-22, 2011
Anschutz Medical Campus
Education 1-North Room P26-1400

Sponsored by:
The Nanomedicine and Drug Delivery Laboratory &
The Center for Translational Pharmacokinetics and Pharmacogenomics,
Department of Pharmaceutical Sciences, University of Colorado Denver
**PHARMACOKINETICS & BIOPHARMACEUTICS MODELING: ADVANCED COURSE**

**Instructor:**  
David Bourne, PhD.  
The University of Oklahoma

**Anschutz Medical Campus, Education 1-P26, 1400**

**MONDAY, NOVEMBER 21st, 2011**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-9:00am</td>
<td>REGISTRATION AND LIGHT REFRESHMENTS</td>
</tr>
<tr>
<td>9:00-9:10</td>
<td>Introduction to Course and Instructor</td>
</tr>
<tr>
<td>9:10-9:35</td>
<td>Why, How, and What of Modeling</td>
</tr>
<tr>
<td>9:35-10:00</td>
<td>Pharmacokinetic Model Review</td>
</tr>
<tr>
<td>10:00-10:15</td>
<td>BREAK</td>
</tr>
<tr>
<td>10:15-12:00</td>
<td>Software Orientation</td>
</tr>
<tr>
<td>12:00-1:00pm</td>
<td>LUNCH: Not Provided</td>
</tr>
<tr>
<td>1:00-1:30</td>
<td>General Review of Program Output</td>
</tr>
<tr>
<td>1:30-2:30</td>
<td>Analytical Integration &amp; Laplace Transforms</td>
</tr>
<tr>
<td>2:30-2:45</td>
<td>BREAK</td>
</tr>
<tr>
<td>2:45-3:00</td>
<td>Numerical Integration</td>
</tr>
<tr>
<td>3:00-3:45</td>
<td>Optimization</td>
</tr>
<tr>
<td>3:45-4:00</td>
<td>BREAK</td>
</tr>
<tr>
<td>4:00-5:00</td>
<td>Weighting Schemes</td>
</tr>
<tr>
<td>5:00-5:30</td>
<td>Review &amp; Questions</td>
</tr>
</tbody>
</table>

**TUESDAY, NOVEMBER 22nd, 2011**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30-9:00am</td>
<td>REFRESHMENTS</td>
</tr>
<tr>
<td>9:00-10:30</td>
<td>Best Model Selection</td>
</tr>
<tr>
<td>10:30-10:45</td>
<td>BREAK</td>
</tr>
<tr>
<td>10:45-11:15</td>
<td>Identifiability, Sensitivity Analysis, and Optimal Sampling</td>
</tr>
<tr>
<td>11:15-11:45</td>
<td>Bayesian Analysis and Population Modeling</td>
</tr>
<tr>
<td>11:45-12:00pm</td>
<td>Review, Questions, &amp; Closing</td>
</tr>
</tbody>
</table>

To register for the event or for more information please contact:

Rashmi Ravi  
rashmi.pacha-ravi@ucdenver.edu  
(303) 724-4026

David Bourne  
david-bourne@ouhsc.edu  
(405) 271-6481 x 47213

Sponsored by:  
The Nanomedicine and Drug Delivery Laboratory &  
The Center for Translational Pharmacokinetics and Pharmacogenomics  
Department of Pharmaceutical Sciences, University of Colorado Denver
COURSE OUTLINE

MONDAY, NOVEMBER 21ST, 2011

8:00-9:00am  REGISTRATION AND LIGHT REFRESHMENTS
9:00-9:10    Introduction to Course and Instructor
9:10-9:35    Why, How, and What of Modeling
9:35-10:00   Pharmacokinetic Model Review
10:00-10:15  BREAK
10:15-12:00  Software Orientation
12:00-1:00pm LUNCH: Not Provided
1:00-1:30    General Review of Program Output
1:30-2:30    Analytical Integration & Laplace Transforms
2:30-2:45    BREAK
2:45-3:00    Numerical Integration
3:00-3:45    Optimization
3:45-4:00    BREAK
4:00-5:00    Weighting Schemes
5:00-5:30    Review & Questions

TUESDAY, NOVEMBER 22ND, 2011

8:30-9:00am  REFRESHMENTS
9:00-10:30   Best Model Selection
10:30-10:45  BREAK
10:45-11:15  Identifiability, Sensitivity Analysis, and Optimal Sampling
11:15-11:45  Bayesian Analysis and Population Modeling
11:45-12:00pm Review, Questions, & Closing

INSTRUCTOR

DAVID BOURNE, PH.D. is a Professor of Pharmaceutical Sciences, College of Pharmacy, The University of Oklahoma. He received his Ph.D. in Pharmacy (University of Kansas). His research interests include the study of pharmacokinetic models; especially physiologically based models, models involving protein binding, pharmacodynamic models and the development of computer programs for pharmacokinetic analysis. Recent work has included the development of models for cephalosporin and sulfonamide disposition including protein binding; oral and Intranasal administration of selected drugs and comparison with IV administration; and the influence of micro gravity on drug absorption and disposition.
COURSE REGISTRATION FORM
Pharmacokinetics and Biopharmaceutics
Modeling Advanced Course
November 21-22, 2011

Anschutz Medical Campus, University of Colorado Denver, Aurora, Colorado

Name ____________________________________________

Degree __________________________________________

Title ____________________________________________

Organization _____________________________________

Department _______________________________________  

Address __________________________________________

City ______________________________________________

State ______________________ Zip ______________

Work Phone _______________________________________ 

Fax ______________________________________________

Email ____________________________________________

Special Dietary Requirements ________________________

________________________ Professional Registration Fee: $375.00

________________________ Student Registration Fee: $100.00

Make Checks Payable to: University of Colorado ATTN: School of Pharmacy

UCD Participants can use an internal speedtype to cover registration fees, please contact us for details.

Registration form can be emailed, faxed, or mailed to:

Rashmi Ravi
University of Colorado Anschutz Medical Center
Department of Pharmaceutical Sciences
12850 E. Montview Blvd., Mail Stop: C238-V20, Aurora, CO 80045
Email: Rashmi.Pacha-Ravi@ucdenver.edu
Fax (303) 724-7266/6149 Phone: (303) 724-4026
Complete information about Denver dining, accommodations and excursions is available at http://www.denver.org/