

GastroPlus®

PBPK Modeling & Simulation Workshop

April 29 - 30, University at Buffalo

Who should attend?

This workshop is appropriate for graduate students, research scientists, and engineers in the areas of medicinal chemistry, DMPK, ADME, biopharmaceutics, and clinical pharmacology. Prior experience with GastroPlus is not required. The course will use GastroPlus for all case studies, but the guiding principles will be taught in a software-independent manner. Class size is limited to encourage interaction with the course instructors and among attendees. Interaction and networking among scientists is an important and valuable part of the experience!

What will you learn?

You will learn to understand and recognize potential interactions among such factors as:

- pKa – ionization effects on solubility, dissolution, permeability & absorption
- solubility & permeability changes in the various environments in the gastrointestinal tract and the differences in physiology between human & preclinical species
- differences in physiology between human and preclinical species
- transit times through various gut regions and how and why they may vary
- formulation effects, including particle size distributions and controlled release dosage forms

You will gain experience with:

- screening compound libraries for absorption and bioavailability using chemical structures
- recognizing when to use PBPK vs. standard compartmental PK models
- predicting first-in-human doses with available preclinical and *in vitro* data
- assessing formulation strategies such as micronization and nanoparticles
- simulating populations including selected mixes of ages, gender ratios, ethnicities, and disease states
- determining the impact of food on the absorption/exposure of different drugs
- modeling nonlinear absorption and/or metabolism kinetics
- evaluating drug-drug interaction (DDI) risks using data at different stages
- understanding optimization methods, objective function weighting, and constraints

How will the workshop operate?

All presentation files and data sets needed to run case studies will be available in electronic format. All attendees will be responsible for bringing their own laptop computers, with GastroPlus and ADMET Predictor® installed prior to the course.

Continental breakfast, refreshment breaks, and lunch will be provided each day.

Where will this be held?

UB School of Pharmacy and Pharmaceutical Sciences
285 Kapoor Hall, Buffalo, New York 14214
Phone: (716) 645-2825 | <http://pharmacy.buffalo.edu>



Register online! www.simulations-plus.com/workshops

S+ **SimulationsPlus**

SCIENCE + SOFTWARE = SUCCESS

REGISTRATION FORM

Attendance is limited • Please register by April 22, 2019

Please fill in this form and return to Renee Bouche (renee@simulations-plus.com); Fax: +1-661-723-5524
To register by phone, please call Renee at +1-661-723-7723 ext. 227

The GastroPlus PBPK Modeling & Simulation Workshop April 29 - 30, 2019, University at Buffalo

Title: Professor Dr. Mr. Mrs. Miss Ms.

First name:

Last name:

Company:

Position:

Department:

Address:

Telephone:

Email:

Purchase Order No. (if applicable):

No cost for UB students/faculty, \$1,000 per person for industry, & \$500 per person for government & non-UB affiliated academia. Price includes all workshop materials, continental breakfast, refreshment breaks, and lunch each day. A training license will be granted to all paid attendees. The training license will begin on the last day of the workshop and expire 30 days later.

Hotel accommodation is not included with registration.

Method of payment (Please check one)

Credit card (a confirmation message will be sent to the email address provided)

Name on card:

Email:

Tel:

Card billing address:

Zip/Post Code:

Type of card: Visa MasterCard AMEX Card Number:

Expires:

Security code:

Payment by check (you will be invoiced upon receipt of your completed registration form)

Payment by wire transfer (you will receive wire transfer information upon receipt of your completed registration form)

Payment online (you will be redirected to the payment portal when registering online at simulations-plus.com/workshops)

Terms and Conditions

Cancellation Policy: Cancellations made prior to April 22, 2019, will be eligible for an 80% refund. Refunds for cancellations will be honored up to 45 days after the date of payment for credit card transactions. Substitutions are allowed up to 10 days before the event.

Payment Terms: Following completion and return of the registration form, the total fee must be paid within 30 days of receipt of invoice. All fees must be paid in full prior to the start of the workshop.