

Simulations Plus presents:
The GastroPlus™ DMPK Workshop



July 10 - 12, 2017 at Chungnam National University

Simulations Plus, the industry's leading provider of simulation and modeling software for drug discovery and development, will be hosting its "GastroPlus™ DMPK Workshop" at Chungnam National University in Daejeon, South Korea on July 10 - 12, 2017.

This three-day, hands-on course provides a working knowledge of the theories and application of our state-of-the-art PBPK modeling and simulation software for the analysis of drug dissolution and absorption, coupled with the resulting pharmacokinetics and pharmacodynamics. A combination of presentations and interactive examples, taken from actual industry experience and using GastroPlus, illustrate how to recognize and deal with the multiple interacting phenomena that affect the absorption, pharmacokinetics, and pharmacodynamics of drugs as they progress to the clinic.



Attendance for this event is limited, so register today!



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Who should attend?

This workshop is appropriate for research scientists and engineers in the areas of DMPK, ADME, and biopharmaceutics. 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 industry, government, and academic scientists is an important and valuable part of the experience!

What will you learn?

Upon completion of this course, you should have a solid understanding of the interactions that exist among the various mechanistic phenomena affecting drug dissolution, absorption, pharmacokinetics (employing both compartmental PK and physiologically based pharmacokinetics - PBPK), and pharmacodynamics.

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

- pKa – ionization effects on dissolution, precipitation, absorption, and distribution
- solubility and permeability changes in the various environments in the gastrointestinal tract
- 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
- influx and efflux transporters in the gut wall and in other tissues
- metabolizing enzymes in the gut wall and in other tissues
- renal clearance and its variables
- potential for enterohepatic circulation

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, and ethnicities
- estimating local concentration of drug following dermal and pulmonary administration
- modeling the distribution of large molecules (biologics) using PBPK approaches
- understanding optimization methods, objective function weighting, and constraints



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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™ installed prior to the course.

Continental breakfast, a refreshment break, and lunch will be provided.

Where will this be held?



The workshop will be held July 10 - 12, 2017 at the College of Pharmacy (Sam-Nam Hall, 1st floor), Chungnam National University in Daejeon, South Korea. Chungnam National University is a “reference university” for Simulations Plus, with students and professors using our modeling & simulation technology to assist with their research.



The workshop is co-hosted by the Institute of Drug Research & Development and the BK21 Plus Program, College of Pharmacy, Chungnam National University

For further information in Korean, please contact:
Ms. Eun Joo Lee • Tel: 042-821-5918
Email: jude7006@cnu.ac.kr

REGISTRATION FORM

Attendance is limited • Please register by June 26, 2017

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™ DMPK Workshop July 10 - 12, 2017 in Daejeon, South Korea

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

FIRST NAME: _____

LAST NAME: _____

COMPANY: _____

POSITION: _____

DEPARTMENT: _____

ADDRESS: _____

TELEPHONE: _____

EMAIL: _____

PURCHASE ORDER NO. (if applicable): _____

Cost for the workshop is 500,000 Korean Won (KRW - Industry), 250,000 (KRW - Academic) per person and includes all workshop materials, continental breakfast, refreshment breaks, and lunch each day. Also, a one (1) month single-user license to GastroPlus, with all optional modules, will be available after the workshop.

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)

Terms and Conditions

Cancellation Policy: Cancellations made prior to June 26, 2017 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.



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