Simulations Plus presents: The Introductory GastroPlus™ Simulation and Modeling Workshop



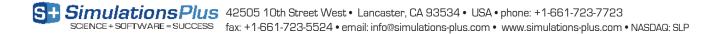
April 3 - 5, 2017 in Mainz, Germany

Simulations Plus, the industry's leading provider of simulation and modeling software for drug discovery and development, will be hosting an "Introductory GastroPlus[™] Simulation and Modeling Workshop" in Mainz, Germany on April 3 - 5, 2017.

This three-day, hands-on course provides a working knowledge of the basic theories and application of state-of-the-art PBPK simulation and modeling 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, PBPK/PD and DDIs of particular drugs and dosage forms.



Attendance for this event is limited, so register today!



Who should attend?

This workshop is appropriate for pharmaceutical/biotechnology scientists and engineers in the areas of DMPK, ADME, preformulation/formulation development, biopharmaceutics, pharmacokinetics, and clinical pharmacology. This is a beginner's course - 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 absorption, pharmacokinetics (employing both compartmental PK and physiologically based pharmacokinetics - PBPK), pharmacodynamics, and DDIs.

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

- pKa ionization effects on solubility, dissolution, permeability and absorption
- solubility and permeability changes in the various environments in the gastrointestinal tract
- differences in physiology between human and preclinical species
- potential for drug degradation in the lumen
- formulation effects, including particle size distributions and controlled release dosage forms
- effects of food/mealtimes on physiology and on the drug
- 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

You will gain basic experience with:

- predicting drug properties from chemical structures using the ADMET Predictor™ Module
- 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
- fitting nonlinear metabolism and transport models
- estimating steady-state and dynamic DDIs
- building PBPK/PD models using simulated target tissue concentrations
- simulating populations including selected mixes of ages, gender ratios, and ethnicities
- running virtual crossover trials to predict bioequivalence
- deconvoluting in vivo dissolution to generate more useful IVIVCs
- modeling the in vivo exposure of large molecules (biologics)
- 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.

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

Where will this be held?





The workshop will be held at:

Johannes Gutenberg University Mainz Building 1430 Anthopologie Anselm-Franz-von-Bentzel-Weg 7 Room 00 101 55099 Mainz, Germany



A limited number of discounted rooms will be available for attendees of the workshop at:

The Hotel Hammer in Mainz, Germany Bahnhofpl. 6, 55116 Mainz, Germany Phone: +1+49 (0) 6131 96 528-0 Fax: +1+49 (0) 6131 96 528-88 www.hotel-hammer.com



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REGISTRATION FORM

Attendance is limited • Please register by March 20, 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

Introductory GastroPlus[™] Simulation and Modeling Workshop April 3 - 5, 2017 in Mainz, Germany

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 USD \$1200 per person (industry) and USD \$600 (academic & government) 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, is available after the workshop. Hotel accommodations are not included with registration, but special room rates are available through The Hotel Hammer. 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:
	d Number: 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 March 20, 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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