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



March 5 - 7, 2018 in San Diego, California

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 San Diego, California on March 5 - 7, 2018.

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!

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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 slides will be available in electronic format. Laptop computers will be provided with GastroPlus™ preloaded along with all data files needed to run the case studies.

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

Where will this be held?





Hyatt Regency La Jolla at Aventine 3777 La Jolla Village Drive San Diego, California, USA, 92122 Tel: +1 858 552 1234 https://lajolla.regency.hyatt.com/en/hotel/home.html





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REGISTRATION FORM

Attendance is limited • Please register by February 28, 2018

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 Introductory GastroPlus[™] Simulation and Modeling Workshop March 5 - 7, 2018 in San Diego, California

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

FIRST NAME:		
LAST NAME:	COMPANY:	
POSITION:	DEPARTMENT:	
ADDRESS:		
TELEPHONE:	EMAIL:	
PURCHASE ORDER NO. (if applicable	e):	
	er person (industry) and USD \$600 (academic ks, and lunch each day. Also, a one (1) month orkshop.	
Hotel accommodations are not included	with registration.	
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	February 28, 2018 will be eligible for an 80% refund. ard transactions. Substitutions are allowed up to 10 o	

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.

