Workshop Overview

This advanced GastroPlus® workshop will provide a more in-depth exploration of PBPK theory, execution, and application of the software compared to the introductory workshop.

To attend this workshop, participants should be familiar with the following:

- running basic GastroPlus® simulations
- database and support file structure
- primary inputs for physicochemical and pharmacokinetic parameters
- basic physiology options for human and animal simulations

The workshop will consist of a combination of live lectures and hands-on exercises within the software. Course materials are selected to demonstrate both the theoretical and practical aspects of the PBPK modeling approach.

The workshop benefits scientists working within:

- preclinical pharmacokinetics and pharmacodynamics
- clinical pharmacokinetics and pharmacodynamics
- interactive processes of absorption (passive and carrier-mediated)
- metabolism in the gut and other tissues
- whole-body distribution affecting PK and PD
- this workshop will also include some examples with special populations

If you are new to GastroPlus®, we recommend attending one of our complimentary introductory training sessions or a low-cost introductory workshops **prior** to attending this *advanced* workshop.

Learning Objectives

At workshop completion, you will have an understanding of the following:

- Screening small compound libraries for absorption (transcellular and paracellular) from chemical structure and *in vitro* data
- Recognizing when to use PBPK vs. standard compartmental PK models
- Predicting first-in-human doses with available preclinical and in vitro data (IVIVE)
- Tracking parent and metabolite concentrations through multiple pathways in plasma and tissues

The goal is to provide you with the tools you need to communicate data needs to your operational groups producing preclinical and clinical data, and clearly present your results to project leaders and management.

Register online! simulations-plus.com/register-training-workshop

GastroPlus®

Instructor(s)

This workshop will be taught by Denise Morris along with other experienced PBPK modelers from Simulations Plus.

Denise Morris

Agenda (All times are Pacific Standard Time)

Monday

08:00 - 10:30 **Course Introduction, First-in-Human Predictions, Hepatic, and Renal Clearance**
10:30 - 12:00 **Transporter-based IVIVE**

Tuesday

08:00 - 11:00 **Enterohepatic Circulation and Metabolite Tracking**
11:00 - 12:00 **PBPK-PD Modeling**

Wednesday

08:00 - 12:00 **DDI Predictions (Dynamic and Steady State) with a focus on Auto-induction**

Thursday

08:00 - 10:00 **Pediatric Population Predictions**
10:00 - 12:00 **Disease State and Pregnancy**

Virtual Platform

Training sessions will consist of live instruction and hands-on examples via Microsoft Teams meetings. Participants will virtually attend using their PCs with enabling of cameras and microphones *optional but encouraged*.

Requirements

PCs equipped with internet access and Google Chrome with Flash 9+ plugins are required to participate. Access to, at a minimum, the basic GastroPlus® module is also required.

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REGISTRATION FORM

Attendance is limited • Please register soon.

GastroPlus® Virtual Advanced Workshop:
DMPK and Clinical Pharmacology

October 11th-14th, 2021 - Register by September 27th

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

☐ Industry
☐ Academia

First name:

Last name: Company:

Job Title: Department:

Address:

Telephone: Email:

Purchase Order No. (if applicable):

Industry: $2,000
Academia: $1,000*

*You must register with a valid .edu email address

Method of payment (Please check one)

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

☐ **Payment online** (you will be redirected to the payment portal when registering online at simulations-plus.com/register-training-workshop)

Terms and Conditions

Registration: The course is limited to the capacity of 25 participants. Confirmation email of registration will be returned upon successful registration at the following web site: **simulations-plus.com/register-training-workshop**

Cancellations: Cancellations with a refund minus 4% credit card fees may be made two weeks before course date. No refunds will be given for cancellations received after this date. Substitutions may be made at any time.

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.

SimulationsPlus
SCIENCE + SOFTWARE = SUCCESS

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