ELECTROLAB, in collaboration with Simulations Plus, presents: The 2-Day GastroPlus™ Pharmaceutical Development Workshop



October 26 - 27, 2017 in Mumbai, India

Electrolab, in collabration with Simulations Plus, the industry's leading provider of simulation and modeling software for drug discovery and development, will be hosting its GastroPlus™ Pharmaceutical Development Workshop" in Mumbai. India on October 26 - 27.

This 2-day hands-on course will provide an in-depth knowledge of the theories and application of state-of the-art simulation and modeling software as it applies to problems facing pharmaceutical scientists dealing with drug product effects on dissolution, absorption and pharmacokinetics. Focus will be placed on applications of this technology as it relates to issues defined in the FDA's Critical Path Initiative.

A combination of presentations and interactive examples, taken from actual industry experience, will illustrate how to recognize and deal with the multiple interacting phenomena that affect the dissolution, absorption and pharmacokinetics of particular drugs, dosing routes, and dosage forms.

GastroPlus software training is best done in an environment where each person operates the program and takes an active part in running simulations along with the instructor. As much as possible, the training uses PowerPoint slides to introduce software features. Once a feature is discussed, trainees then use it on their individual computers to see how it works. We find this instruction method to be much more effective than starting with a lecture that explains the entire program and later having students operate the program.



Attendance for this event is limited, so register today!

Who should attend?

This workshop is appropriate for scientists in pharmaceutical development who need an in-depth understanding of how formulation affects the highly interactive processes of dissolution, precipitation, gastrointestinal transit, absorption (passive and carrier-mediated), first-pass metabolism and pharmacokinetics. Although the course will use GastroPlus for all case studies, the guiding principles will be taught in a software-independent manner.

Class size is limited to encourage interaction with the course instructors and among delegates.

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 and pharmacokinetics (employing both compartmental PK and physiologically based pharmacokinetics - PBPK) and how they relate to the development of drug products, both in preclinical and clinical settings.

- Incorporating modeling & simulation to assist with Deconvoluting in vivo dissolution to help design in Quality by Design (QbD) implementation
 - vitro experiments and generate mechanistic IVIVCs
- Assessing formulation strategies (e.g.,micronization Identifying food effect, both positive and negative, and nanoparticles) earlier in product development
- on absorption
- Analyzing the impact of common ion effect on solubility & dissolution
- Running virtual bioequivalence studies to estimate sample sizes and achieve adequate power
- Screening for different salts and understanding the Understanding optimization methods, objective effect on precipitation kinetics
 - function weighting, and constraints
- Properly using in vitro dissolution data to predict plasma concentration levels
- Designing controlled release products to reach therapeutic "windows" or target concentration profiles

Course Instruction

Dr. Bolger joined Simulations Plus, Inc. as the first member and Director of Life Sciences in 1996. He programmed the first version of a software program called GastroPlus™ for simulation of mechanistic oral absorption and physiologically based pharmacokinetics in 1997. GastroPlus is currently used by all of the major pharmaceutical companies and many of the biotechnology and generic drug companies, and many of the drug regulatory agencies around the world. He currently works with a team of scientist / programmers at Simulations Plus in the development of software programs for estimation of biopharmaceutical properties and simulations of absorption and bioavailability. He was elected to the rank of Fellow of the American Association for the Advancement of Science in 1996. In 2017 he was appointed to the NIH Scientific Advisory Committee on Alternative Toxicological Methods.



Mike Bolger, Ph.D.

How will the workshop operate?

All presentation files and data sets needed to run case studies will be available in electronic format. All delegates will be responsible for bringing their own laptop. Electrolab will install GastroPlus on the delegates laptop prior to the workshop.

Breakfast, refreshment breaks, and lunch will be provided each day.

SESSION	TIME	TITLE	
		DAY 1 : 26/10/2017	
SESSION I	08.30 am R	egistration	
	09.30 am	Welcome and an overview of the GastroPlus™ PBPK modeling platform	
	09:45 am	Applications: QSAR/PBPK modeling integration – defining inputs through chemical structures and in silico F% simulations in animals and humans	
	11:00 pm	TEA BREAK	
SESSION II	11:30 am	Applications: Mechanistic dissolution modeling (aqueous solubility vs. pH, biorelevant solubility, preformulation assessment, particle size distributions)	
	1:00 pm	LUNCH BREAK	
SESSION III	2:00 pm	Applications: Mechanistic dissolution & precipitation modeling (Z-factor options, precipitation kinetic features)	
	4:00 pm	TEA BREAK	
SESSION IV	4:15 pm	Applications: Mechanistic oral absorption modeling (the ACAT™ model, ASFs, paracellular absorption)	
	6:00 pm	Adjourn	
	7:00 pm	Networking : Dinner and Cocktails	
SESSION	TIME	TITLE	
		DAY 2: 27/10/2017	
SESSION V	09.30 am	Applications: Systemic PK modeling considerations (PKPlus™ Module)	
	10:30 am	Applications: Mechanistic IVIVCs and virtual bioequivalence trials	
	11:00 pm	TEA BREAK	
SESSION VI	11:15 am	Applications: Mechanistic IVIVCs and virtual bioequivalence trials (integration with DDDPlus™ for dissolution specifications)	
	1:00 pm	LUNCH BREAK	
SESSION VII	2:00 pm	Applications: Mechanistic IVIVCs and virtual bioequivalence trials (integration with DDDPlus™ for dissolution specifications)	
	3:00 pm	Applications: Formulation optimization to hit target PK profiles	
	4:00 pm	TEA BREAK	
SESSION VIII	4:15 pm	Applications: Food effect modeling	
	6:00 pm	Adjourn	

Where will this be held?





Mirage Hotel

International Airport Approach Road Marol, Andheri (E), Mumbai - 400 059

Phone: +91-22-6672 1212/34 Email: res@miragehotel.in

www.miragehotel.in

Accomodation at concessional rates using

promo code: GASTROPLUS

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REGISTER NOW

Send the below registration details along with cheque/DD to ELECTROLAB registered office at Mumbai.

DELEGATE REGISTRATION

	(to be filled and s	sent to below mentio	ned address)
Title:	Full Name:		
Designation:	Departm	nent:	
Organization:	Address:		
Email:	_Phone	e:	Mobile:
REGISTR	ATION FEES:		
	Professionals : 40000 INR + /Academia/ Scholars : 20000 INR +		Accomodation at Concessional Rates MIRAGE HOTEL Tel: 91-22-6672 1212/34 Email: res@miragehotel.in Use our code: GastroPlus
*Beneficiary N *Bank Name	sfer: k transfer, please send payments to: lame : ELECTROLAB (INDIA)PVT LIMITED : DBS BANK LIMITED aber : 811210089238 : DBSS0IN0811 : FORT HOUSE 221,Dr. D.N.ROAD,FORMUMBAI - 400 001	To ELECTROLA I. B. Patel road, Mumbai - 400 Please mail th registered for	No amount INR made payable B (INDIA) PVT LIMITED Head Office: 401, Tirupati Udyog, Off. Western Express highway, Goregaon (East), 063, India. The copy of delegates name and the course along with the bank transfer details to the news@electrolabgroup.com.
Payment: All payments must be made in fi All the online registrations organisers at 91 - 22 - 4161 Workshop fees include entropy workshop papers. Please no Fees are subject to applicable Cancellation and Substitutions: Once booked, cancellation please email details of thesu In the event that ELECTROUS workshop fee paid. In the event that ELECTROUS attend on the rescheduled decredit notes can be used to which must occur withinon	ull before the workshop date. can be done only till 10 th Oct, 2017. For bookings thereafter, please conta .3122/113. rance to the workshop sessions, refreshments as per onsite schedule, an tethat accommodation and travel are not included in the workshop fee. le GST as per government rules and regulations.	postponement of cancelled, resched other event that in this clause, a fortu other emergency. Programme chain in the content of the emergency. Please note that sy due to unforeseen to alter or modify to Any substitutions content in the content of the emergency. Your Details: By entering your de to contact you (by pirat any time you de write to news@ele Students are requiseded.)	
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1. Co-ordinator

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