

Workshop on PBPK Modeling: From Dost's false hypothesis to the modern era of physiologically based finite time absorption pharmacokinetic (PBFTPK) models.

Organized by Pharma-Informatics Unit of the "Athena" Research and Innovation Center, Athens, Greece

Congress Centre, Ljubljana Slovenia, June 9, 2020

Scientific Program:

Time	Speaker	Topic
08:55	Panos Macheras <i>Pharma-Informatics Unit of "Athena" Research Center, Athens, Greece</i>	Welcome – Introduction
<u>Session 1: Finite time oral absorption models</u>		
09:00	Panos Macheras <i>Pharma-Informatics Unit of "Athena" Research Center, Athens, Greece</i>	The false assumption that breaks pharmacokinetics of oral drug absorption: Towards physiologically based finite time pharmacokinetic (PBFTPK) models
09:30	Pavlos Chrysafidis <i>Department of Pharmacy, University of Athens.</i> <i>Pharma-Informatics Unit of "Athena" Research Center, Athens, Greece</i>	Revising oral drug absorption analysis I: Models based on biopharmaceutical/physiological and finite time concepts
10:00	Ioannis Loisios-Konstantinidis <i>Department of Pharmaceutical Technology, J.W. Goethe University,</i>	Revising oral drug absorption analysis II: Questioning the absorption rate constant and flip-flop kinetics
10:30	Panos Macheras <i>Pharma-Informatics Unit of "Athena" Research Center, Athens, Greece</i>	Revising oral drug absorption analysis using PBFTPK models III: Implications for bioavailability, bioequivalence biowaivers, IVIVC, interspecies PK scaling
11:00	Coffee Break	
<u>Session 2: Complex absorption</u>		
11:30	Iztok Grabnar <i>Faculty of Pharmacy, University of Ljubljana, Slovenia</i>	Modeling complex absorption in a population analysis using empirical functions
12:00	Panos Macheras <i>Pharma-Informatics Unit of "Athena" Research Center, Athens, Greece</i>	Fractal-fractional kinetics in drug absorption processes
12.30	Light lunch	
<u>Session 3: Current challenges in PBPK modeling</u>		
13.30	Rebeka Jereb <i>Faculty of Pharmacy, University of Ljubljana, Slovenia</i>	In vitro-in vivo relationship and bioequivalence prediction for modified-release capsules

14.00	Sandra Cvijic Department of Pharmaceutic Technology, University of Belgrade	Tackling the challenges of physiologically-based absorption modeling for inhaled drugs
14.30	Coffee Break	
15:00	Nicola Mellilo Università degli Studi di Pavia, Italy.	Complex Models, Sensitivity Analysis and Parameter Scanning vs Global Sensitivity Analysis: The Untold Story of Inter-Correlation of Model Parameters
15:30	Pavlos Chrysafidis <i>Department of Pharmacy, University of Athens. Pharma-Informatics Unit of "Athena" Research Center, , Athens, Greece</i>	Analysis of PK data using PBFTPK models
16:00	<i>Wrap-up & end of workshop</i>	