

SCIENTIFIC PROGRAM

22-23 May 2023

> Main Building University of Athens **Greece**

Bioavailability-Bioequivalence

From Classification to Virtualisation & Anything in Between





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WELCOME MESSAGE

Dear colleagues,

We wish to welcome you all to Athens. This memorial meeting is dedicated to Laszlo Endrenyi who was chair of Pharmacology at the University of Toronto. Canada with an international leading role in Pharmacokinetics. Bioavailability and Bioequivalence.

The topics of the meeting cover all scientific and regulatory disciplines from drug discovery and formulation strategies up to pharmacokineticspharmacodynamics and the assessment of bioavailability and bioequivalence of formulations. Emphasis will be given to those studies based on virtualization or involving virtualization elements or platforms. These in silico methodologies are applied to the whole spectrum of drug research as well as to the development of generics. In this vein, physiologically based pharmacokinetic modeling and virtual bioequivalence studies are valuable tools today for the development of new drugs and generics. Eminent worldwide scientists from academia, regulatory Agencies and industry are listed among the confirmed speakers.

Co-chairs

Professor Panos Macheras National & Kapodistrian University of Athens, Greece

Professor Imre Klebovich Semmelweis University, Budapest, Hungary

Professor Amin Rostami The University of Manchester & Certara, United Kingdom



Laszlo's exceptional contributions to the field of pharmacokinetics, bioavailability and bioequivalence are held in the highest regard. We who had the good fortune to know Laszlo for so many years, and those who ever met Laszlo, were so greatly benefited from his insight and scientific contributions. Above all, Laszlo was a true gentleman, always smiling and always graciously sharing his brilliance and friendship.

& Anything in Between



COMMITTEES

Co-chairs

- Professor Panos Macheras
 National & Kapodistrian University of Athens,
 ATHENA Research, Greece
- Professor Imre Klebovich
 Semmelweis University, Budapest, Hungary
- Professor Amin Rostami
 The University of Manchester & Certara, United Kingdom

Scientific Committee

- Leslie Z. Benet (USA)
- Meir Bialer (IL)
- Robert Bies (USA)
- Erem Bilensoy (Turkey)
- Henning H. Blume (DE)
- George Digenis (USA)
- Aris Dokoumetzidis (GR)
- A. Atilla Hincal (TR)
- Milena Jadrijević-Mladar Takač (HR)
- José A. Guimarães Morais (PT)
- Stefan Mühlebach (CH)
- Urve Paaver (EE)
- Carl C. Peck (USA)
- Sandy Pang (CA)
- Olavi Pelkonen (FI)
- Christos Reppas (GR)
- Malcolm Rowland (UK)
- Geoffrey Tucker (UK)
- Vinod P. Shah (USA)
- Michael Weiss (DE)
- Clive G. Wilson (UK)









From Classification to Virtualisation & Anything in Between



SCIENTIFIC PROGRAM

Monday, 22 May 2023

| 10:00 | Welcome Message Moderators: C. Kittas, Ex- Rector, National and Kapodistrian University of Athens Y. Ioannidis, Department of Informatics, National and Kapodistrian University of Athens, ACM president | |
|-------------|---|--|
| | Invited Lectures | |
| | 10:30–10:50 From mathematics to algorithms to helping society I. Emiris, ATHENA Research Center, Department of Informatics, National and Kapodistrian University of Athens, Greece | |
| | 10:50–11:10 3D Printing in pharmacy and pharmaceutical sciences D. Douroumis, Centre for Innovation in Process Engineering and Research, University of Greenwich, London, UK | |
| | 11:10–11:30 Multiscale analysis of the COVID-19 waves in Greece D. Goussis, Khalifa University, Abu Dabi, UAE | |
| 11:30–12:00 | COFFEE BREAK | |
| 12:00-14:00 | FIRST SESSION "Bioavailability-PBPK models" Moderators: J. Morais, University of Lisbon, Portugal A. Hincal, Hacettepe University, Ankara, Turkey | |
| | 12:00–12:30 Is the gut out-evolved by progress in modern food technology? C. G. Wilson, Strathclyde Institute of Pharmacy and Biomedical Science, Glasgow, Scotland, UK | |
| | 12:30–13:00 Absorption PBPK models in regulatory applications: The EMA experience. A. Dokoumetzidis, Faculty of Pharmacy, National and Kapodistrian University of Athens, Athens, Greece | |
| | 13:00–13:30 The Explanation for Why Calculated Bioavailability May Be Greater Than 100%: Regulatory, Therapeutics and PBPK Implications L. Benet, Department of Bioengineering and Therapeutic Sciences, School of Pharmacy and Medicine, University of California, San Francisco, CA, USA | |
| | 13:30–14:00 Dependence of bioavailability on mean absorption time: What does it tell us? M. Weiss, Department of Pharmacology, Martin Luther University Halle (Saale) Germany | |
| 14:00–14:45 | BREAK | |
| 14:45–16:45 | SECOND SESSION "Bioequivalence-Virtual Bioequivalence" Moderators: M. Rowland, University of Manchester, Manchester, UK V. Shah, Former Senior Sicentist FDA, USA | |
| | 14:45–15:15 Practical Strategies in Embracing Modelling in BA/BE: Revisiting the Debate on Modalities of M&S in Relation to Its Adoption A. Rostami, University of Manchester, Manchester, UK | |
| | 15:15–15:45 Is TOST toast - so, what is BEST? C. C. Peck, NDA Partners LLC, Department of Bioengineering and Therapeutic Sciences, Schools of Pharmacy and Medicine, University of California, San Francisco, CA, USA | |
| | 15:45–16:15 Bioequivalence: Exceptions to the rule M. Guirguis, Applied Pharmaceutical Innovation, Edmonton AB, Canada | |
| | 16:15–16:45 Micro-dosing. What have we learnt? M. Rowland, University of Manchester, Manchester, UK | |

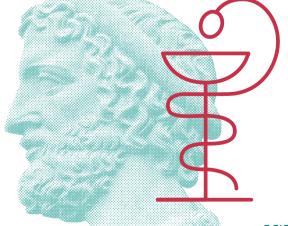
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Athens, Greece



SCIENTIFIC PROGRAM

Monday, 22 May 2023

| 16:45–17:15 | COFFEE BREAK |
|-------------|---|
| | 17:15–17:30 PBPK based Virtual Drugs Equivalence Assessment - from bioequivalence via therapeutic equivalence to pharmacotherapeutic interchange and beyond Sebastian Polak, Certara UK, Jagiellonian University Medical College |
| | 17:30–18:00 Model-Based Bioequivalence Approaches for complex generic products M. P. Ducharme, Learn and Confirm Inc, Faculté de Pharmacie, University of Montreal, Montreal, Canada |
| 18:00–18:30 | SESSION DEDICATED to Laszlo Endrenyi Moderators: C. Peck, NDA Partners LLC, Department of Bioengineering and Therapeutic Sciences, Schools of Pharmacy and Medicine, University of California, San Francisco, CA, USA I. Klebovich, Semmelweis University, Budapest, Hungary |
| 18:30–19:45 | THIRD SESSION "Virtualization" Moderators: L. Benet, University of California, San Francisco, CA, USA M. Bialer, School of Pharmacy, Faculty of Medicine, Hebrew University of Jerusalem, Israel |
| | 18:30–19:00 Decoding the chemistry with manifold embedding and predicting drug developability with deep learning. L. Tonglei, University of Purdue, West Lafayette, IN, USA |
| | 19:00–19:30 Physiologically Based Biopharmaceutics Modeling to inform Formulation Selection and to define the Bioequivalence Safe Space (Zoom) T. Heimbach, PhD MRL, Sterile & Specialty Products Group Biopharmaceutics Merck & Co. Inc. |
| | 19:30–19:45 A physiologically - based pharmacokinetic modeling for clinical drug dosing in pediatrics Carbamazepine – Simcyp simulations (Zoom) Enkelejda Goci ^{1,2} , Joyce van der Heijden ³ , Saskia de Wildt ^{3,4} ¹ Pharmacotherapeutic Research Center, Faculty of Medical Sciences, Aldent University, ² Department of Pharmacy, Faculty of Medicine, University of Medicine, Tirana, ³ Department of Pharmacology and Toxicology, Radboud University Medical Center, ⁴ Erasmus MC Sophia Children's Hospital |
| 20:30 | Congress Dinner* |



Kostis Palamas Building, 48 Akadimias Street & Sina Street (extra cost applicable)

From Classification to Virtualisation & Anything in Between



SCIENTIFIC PROGRAM

Tuesday, 23 May 2023

| POURTH SESSION "Advances in Pharmaceutical Sciences" Moderators: P. Macheras, Faculty of Pharmacy, National and Kapodistrian University of Athens, ATHENA Research Center, Ath M. Jadrijevic-Mladar Takac, Faculty of Pharmacy and Biochemistry, University of Zagreb, Zagreb, Croat O9:00–09:30 The peaks and troughs of alkyl-carbamates in epilepsy therapy: what have we learn period between falbamate (1993) and cenobamate (2019)? M. Bialer, School of Pharmacy, Faculty of Medicine, The Hebrew University of Jerusalem, Jerusalem, Israel O9:30–10:00 Prediction of BCS and ECCS of macrolides in new drug discovery - focus on substitution azithromycin derivatives and their conjugates M. Jadrijevic-Mladar Takaci*, T. Takaci*, T. Jednačaki* "Faculty of Pharmacy and Biochemistry, University of Zagreb, Zagreb, Croatia; Faculty of science, University of Zagreb, Croatia 10:00–10:30 Dual ligand targeted Doxorubicin stealth liposomes as therapeutic against triple not breast cancer F. Gkartziou, E. Natsaridis, S. Mourtas, S. G. Antimisiaris Lab Pharm Technology, University of Patras, Rio-Patras, Greece & FORTH/ICE-HT, Platani-Patras, Greece 10:30–11:00 In vitro evaluation of differences in early exposure. M. Vertzoni, Department of Pharmacy, National and Kapodistrian University of Athens, Athens, Greece 11:00–11:15 Targeted delivery of imiquimod to mesenteric and retroperitoneal lymph nodes fol oral administration Haojie Chen¹, Liuhang Ji¹, Abigail Wong¹, Yenju Chu¹, Wanshan Feng¹, Dong-hyun Michael J. Stocks¹, Pavel Gershkovich¹ ¬University of Nottingham 11:15–11:45 New strategies for buccal drug delivery using emerging technologies. D. G. Fatouros, Laboratory of Pharmaceutical Technology, Department of Pharmacy, Aristotle University of Thessaloniki, Thessaloniki, Greece 11:45–12:00 COFFEE BREAK FOURTH SESSION CONTINUES "Advances in Pharmaceutical Sciences" Moderators: D. Rekkas, Faculty of Pharmacy, National and Kapodistrian University of Athens, Greece, P. Macheras, National and Kapodistrian University of Athens, Greece | |
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| | |
| C. Demetzos, Department of Pharmacy, National and Kapodistrian University of Athens, Greece | |
| 12:30–13:00 Biosimilars in clinical practice: Opportunities and Challenges C. Fokoloros, Amgen, Athens, Greece | |
| 13:00–13:30 Cannabinoids: From chemical structure to pharmacology and regulatory aspects of E. Skaltsa, Faculty of Pharmacy, National and Kapodistrian University of Athens, Athens, Greece | their use |
| 13:30–14:00 Towards an in silico integrated approach for testing and assessment of nanomateri predicted indoor air concentrations to lung dose and biodistribution A. Afantitis, Novamechanics, Piraeus, Greece | als: from |



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SCIENTIFIC PROGRAM

Tuesday, 23 May 2023

14:00–14:15 RARE-ID: Preliminary results of targeted metabolomics study in pediatric patients with autism and rare neurological diseases

> Yannis Dotsikas¹, Yannis Loukas¹, Maria Spanou², Georgia Thodi³, Eirini Mathaiou¹, Stafania Antonopoulou³, Maria Chatzidaki¹, Christos Skaloubakas⁴, Leonidas Bourikas⁴, Argirios Dinopoulos⁵

> ¹Department of Pharmacy, National and Kapodistrian University of Athens, Greece, Laboratory of Pharm, Analysis, Athens, Greece, ²3rd Department of Pediatrics, "Attikon" Hospital, National and Kapodistrian University of Athens, Greece, ³Molecular Diagnostics Department, Neogenetics Ltd, Athens, Greece, ⁴Habilis, Athens, Greece, ⁵1stDepartment of Pediatrics, St. Sophia's Children's Hospital, National and Kapodistrian University of Athens, Athens, Greece

14:15-15:15 **BREAK**

15:15-16:30 FOURTH SESSION CONTINUES

Moderators: P. Dallas - P. Macheras, Faculty of Pharmacy, National and Kapodistrian University of Athens, Greece

15:15–15:45 A robust model predictive control framework for the regulation of anesthesia process with Propofol

C. Sarimveis, National Technical University of Athens, Greece

15:45-16:15 The role of Artificial Intelligence in the in vitro Fertilization Clinical Embryology Laboratory: an automatic procedure or an additional evaluation of the embryos?

T. Triantafyllou, laso Maternity & Gynaecology Clinic, Athens, Greece

16:15-16:30 Design and development of low and medium-viscosity alginate beads loaded with Pluronic 188 nano-micelles

> Chrystalla Protopapa¹, Flora Kalogeropoulou^{1,2}, Dimitra Papailiou^{1,2}, **Angeliki Siamidi**¹, Natassa Pippa¹, Marilena Vlachou¹

¹Section of Pharmaceutical Technology, Department of Pharmacy, School of Health Sciences, National and Kapodistrian National and Kapodistrian University of Athens, Panepistimioupolis Zografou, 15771 Athens, Greece, 2Third Department of Medicine, Athens School of Medicine, National and Kapodistrian National and Kapodistrian University of Athens, "Sotiria" Hospital for Diseases of the Chest, Athens, Greece

16:30-16:45 **COFFEE BREAK**

16:45-18:45

FIFTH SESSION "From the Inception of the Finite Absorption Time Concept to a Novel Strategy for the Development of Generics"

Moderators: C. G. Wilson, Strathclyde Institute of Pharmacy and Biomedical Science, Glasgow, Scotland, UK G. Digenis, USWORLDMEDS, Louisville, USA

16:45–17:15 The Finite Absorption Time concept in Oral drug absorption

P. Macheras, Faculty of Pharmacy, National and Kapodistrian University of Athens, ATHENA Research Center, Athens, Greece

17:15–17:45 The rise of Physiologically based finite time pharmacokinetic (PBFTPK) models A. Tsekouras, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece

17:45–18:15 On the complementarity of PBPK and PBFTPK models (Zoom)

Wu Di, Pharmaceutical Sciences and Clinical Supply, Merck & Co. Inc., Rahway, NJ, USA

18:15–18:45 Revamping Biopharmaceutics-Pharmacokinetics with scientific and regulatory implications for oral drug absorption

P. Macheras, Faculty of Pharmacy, National and Kapodistrian University of Athens, ATHENA Research Center, Athens, Greece

18:45-19:00 Wrapping up

L. Benet, I. Klebovich, P. Macheras, C. Peck

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GENERAL INFORMATION



Secretariat Operating Hours

| Monday, 22 May 2023 | 09:00-20:00 |
|----------------------|-------------|
| Tuesday, 23 May 2023 | 08:30-19:00 |

Language

The official language of the Congress will be English.

No translation will be provided for participants.

Congress Dinner

The congress dinner will take place on 22 May 2023 at "Kostis Palamas" building. The cost is 40€ per person.

Congress Dates 22-23 May 2023

Venue

Argyriades amphitheater at the Main Building of the University of Athens

Panepistimiou Ave, 30, 106 79, Athens, Greece Metro station Panepistimio (red line)

Certificates

Certificates of attendance will be electronically sent to all participants, following the completion of the evaluation form.

CONGRESS SECRETARIAT

PROFESSIONAL CONGRESS ORGANIZER (PCO) AFEA S.A. Travel & Congress Services



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ABOUT ATHENS

The City

A unique combination of the old and the new, set up against a spectacular Mediterranean landscape, Athens inspires its visitors, leaving its mark in their hearts and minds. Surrounded by a lining of stunning seas and mountains, this city is filled with gems just waiting to be discovered. Each year, more and more travelers are choosing Athens for their leisure and business travel all year round. There are several reasons; Athens offers a variety of things to see and do, and most of the times, under favorable weather conditions. Athens is an ideal congress destination, combining state-of-the-art infrastructure, excellent conference facilities and easy access from all over the world with world-class cultural attractions, diverse entertainment and natural beauty.

Weather

Athens is an ideal year-round destination with comfortable and favorable climate conditions for travel and sightseeing. Rainfall is minimal and the summers (May through August) are dry and hot with temperatures ranging, on average, from 78° to 94°F or 20° to 34°C.





22-23 May 2023 Main Building University of Athens Athens, Greece



Shopping Hours

Major outlets Monday-Friday. 9:00-21:00; small shops Monday, Wednesday 9:00 to 15:30; Friday, 9:00 to 20:30; Saturday 9:00 to 15:30.

The airport

The award-winning Athens International Airport, Eleftherios Venizelos, serves 83 international destinations. Its close proximity to the city center-just 27 km from the hotel-, 30 minutes by car and 40 minutes by metro-through line 3, makes Athens easily accessible.

Transportation

Network includes new buses, pollution-free trolleys, tram and a revamped electric railway system that connects to the metro lines. Taxis can be used, which are also inexpensive considering the European standards. At Athens Airport you can find a wide variety of options regarding ground transportation:

Bus: There are 4 bus lines which connect the airport to the city centre. One single ticket costs 9€. For more information about the bus lines and routes, you may visit oasa.gr.

Taxi: Taxis can be used, which are also inexpensive by European standards (40€ from Athens to the airport). As Uber function is not available in Greece, you may use the Taxi Beat instead. For more information, you may visit thebeat.co/gr-en/.

Train: Athens Airport is connected via suburban rail to Athens Central Railway Station (Larissis Station), Port of Pireaus and Kiato.

Metro: To access by metro, take Athens Metro Line 3 at the Airport's Railway Station. For more information, you may visit the official site of the www.aia.gr

Currency

Greece uses Euro (€).

Time

Greece is GMT+2.

ATMs

They are widely available in Greece for Master or Visa cardholders.

Banks

Banks are open from Monday to Thursday, 8:00-14:30 hours and on Friday, 8:00-14:00 hours; on Saturdays and Sundays they are closed. Central branches of some banks may be found open until 20.00 daily and from 10.00 to 16.30 on Saturdays. For further details while in Athens please consult your hotel concierge.

Credit cards

All major credit cards are accepted in almost all hotels, shops, and restaurants. Stickers in the front windows will advise you as to which cards are accepted.

Electricity

Electricity is 220 V/50 Hz. Plugs are the standard continental (DIN) type with two round pins.

Emergency Numbers

| Emergency | 112 |
|-----------------|-----|
| Ambulance | 166 |
| Fire Department | 199 |
| Police | 100 |
| Coast Guard | 108 |
| Tourist Police | 171 |

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