2nd International Congress of Greek Local Chapter of Controlled Release Society (CRS)

From Medicinal Chemistry - Natural Products to Pharmaceutics & Pharmacokinetics / Pharmacodynamics

22/24 June 2016

Aegli Zappiou
Athens, Greece

Final Program

Tribute to:
Emeritus Professor George Digenis
University of Kentucky, USA
Emeritus Professor Gregory Gregoriadis
University College London, UK
Emeritus Professor Athanassios Iliadis
University of Aix Marseille, France
Dear Colleagues,

From our position as Chairpersons of the 2nd International Congress of Greek Local Chapter of CRS (Controlled Release Society), it is our pleasure to welcome you all to Athens.

This congress is dedicated to Emeritus Professor George Digenis, University of Kentucky, USA, Emeritus Professor Gregory Gregoriadis, University College London, UK, and Emeritus Professor Athanassios Iliadis, University of Aix Marseille, France. In line with the broad spectrum of the research work of the three eminent Emeritus Professors the congress program covers many aspects of drug research and development. In this context, the theme of the congress is “From Medicinal Chemistry – Natural Products to Pharmaceutics & Pharmacokinetics / Pharmacodynamics”.

In order to guarantee the quality of future research and new practical applications, a dialogue between experienced colleagues, young scientists and professional is also encouraged.

Panos Macheras
Emeritus Professor
Faculty of Pharmacy
University of Athens

Antimisiaris Sophia
Professor
Faculty of Pharmacy
University of Patras
TOPICS

- ADMET Studies
  - Analytical Sciences and Pharmaceutical Quality
- Biosimilars
  - Biotechnological Drugs
- Computational Studies
- Drug Delivery
- Drug Design and Discovery
  - Formulation Design and Pharmaceutical Technology
- Natural Products
  - Pharmaceutical Biotechnology
  - Pharmacopeidemiology and Health Technology Assessment
- Pharmacokinetics, Pharmacodynamics and Systems Pharmacology
- Pharmacology
  - Regulatory Sciences (including Dissolution/in vitro drug release, BCS, BDDCS and Biowaivers, BA/BE and Clinical Bridging Studies)
- Translational Research and Individualized Medicines

COMMITTEES

Co-Chairs
Emeritus Professor Macheras Panos, University of Athens, President of the CRS Greek Local Chapter
Professor Antimisiaris Sophia, University of Patras

Organizing Committee
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Lida Kalantzi, Vice President of the CRS Chapter
Rena Christodoulou, Treasurer of the CRS Chapter
Konstantina Soulele, General Secretary of the CRS Chapter
Dimitrios Psachoulas, Board member of the CRS Chapter

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George Kokotos, President of Faculty of Chemistry of the National & Kapodistrian University of Athens
Petros Sifakis, President of Faculty of Medicine of the National & Kapodistrian University of Athens
Alexios Leandros Skaltsounis, Professor, Faculty of Pharmacy of the National & Kapodistrian University of Athens

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Sophia Antimisiaris, Greece
Martin Brønd, Denmark
Panos Constantinides, USA
Paraskevas Dallas, Greece
Aris Dokoumetzidis, Greece
Dimitris Fatouros, Greece
Georgios Foskolos, Greece
George Garbolas, Greece
Ihsan Gumel, Turkey
Vangelis Karalis, Greece
Yannis Loukas, Greece
Panos Macheras, Greece
Stavros Malamatidis, Greece
Emmanuel Mikros, Greece
Yvonne Perrie, UK
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Mina Symillidou, Greece
Georgia Valsami, Greece
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Students Committee
Vicky Barmpatsalou, University of Athens
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Efthymios Skoufis, University of Patras
George Strigkos, University of Patras
Elpida Skintzi, University of Athens
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Georgia-Agoritsa Tsakoumi, University of Thessaloniki
Konstantina Zouliati, University of Athens
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CRS Greek Local Chapter

Professional Congress Organizer

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Professional Congress Organizer
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Fax: (+30) 210 3643511
e-mail: crs@afea.gr

Under the Auspices of

Faculty of Pharmacy, University of Athens
Faculty of Pharmacy, University of Patras
Faculty of Pharmacy, Aristotle University of Thessaloniki
22 June 2016 // Olympia Hall

09:00-09:15 OPENING CEREMONY
Moderators: P. Marakos - P. Sfikakis - G. Kokkotos

09:15-10:00 Turning the Pages of a lifetime research
George Digenis, Emeritus Professor Medicinal Chemistry and Pharmaceutics
College of Pharmacy, University of Kentucky, USA, Chief Scientific Officer US WorldMeds, LLC

10:00-10:30 Blue Biotechnology: The last frontier?
Vasilis Roussis, Professor, Department of Pharmacognosy and Chemistry of Natural Products, University of Athens

10:30-11:00 COFFEE BREAK // POSTER VIEWING

11:00-13:30 Session Dedicated to the memory of Prof. Z. Daifoti
Moderators: P. Macheras - Ch. Dalla

11:00-11:30 Human organs on chip: a new era for drug development
Achilleas Gravanis, Professor, Department of Pharmacology, Medical School, University of Crete

11:30-12:00 H2S donors and H2S synthesis inhibitors: basic pharmacology & translational opportunities
Andreas Papapetropoulos, Professor, Department of Pharmaceutical Chemistry, University of Athens

12:00-12:30 The role(s) of pleiotrophin and its receptor protein tyrosine phosphatase beta/epsilon as angiogenesis regulators & alternative drug targets
Evangelia Papadimitriou, Professor, Ph.D., Laboratory of Molecular Pharmacology, Department of Pharmacy, University of Patras

12:30-13:00 Genomics & Pharmacogenomics in Neurodegenerative Disease
Despoina Sanoudou, Assistant Professor, Department of Pharmacology, Medical School, University of Athens

13:00-13:30 Sex differences in depression and antidepressant response: preclinical & clinical data
Christina Dalla, Assistant Professor, Department of Pharmacology Medical School, University of Athens

13:30-15:00 BREAK // POSTER VIEWING

15:00-15:30 Tools & Strategies for Discovering Bioactive Natural Products from Microorganisms
Nikolas Fokialakis, Assistant Professor, Department of Pharmacognosy and Natural Product Chemistry, University of Athens

15:30-16:00 Research & innovation on natural products: from Athens labs to Tokyo market
Sophia Letsiou, Chemist, MSc, PhD, Biochemistry Lab Manager, APIVITA SA

16:00-16:30 Phospholipase A2 inhibitors as novel agents for the treatment of inflammatory & autoimmune diseases
George Kokkotos, Professor of Organic Chemistry, University of Athens

16:30-17:00 COFFEE BREAK // POSTER VIEWING

17:00-17:30 NMR conformational dynamics of ligand binding in proteins with Pharmaceutical/Therapeutic Interest
George Spyroulias, Professor, School of Pharmacy, University of Patras

17:30-18:00 Targeting protein kinases with purine bioisosteres
Nicole Pouli, Professor, Department of Pharmaceutical Chemistry, University of Athens

18:00-18:30 Balancing Antioxidant, Antiinflammatory and Hypolipidemic Activity by Design
Angeliki Kourounakis, Associate Professor Department of Medicinal Chemistry, Faculty of Pharmacy, University of Athens

18:30-19:00 Tribute to Professors, G. Digenis - G. Gregoriadis - A.Iliadis
Moderators: P. Macheras S. Antimisiaris

19:30 WELCOME RECEPTION
23 June 2016 // Olympia Hall

**Pharmaceutics**

**Moderators:** P. Macheras - S. Antimisiaris

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tr>
<td>09:00-09:30</td>
<td>The Drug Delivery Years: Riding the Trojan Horse</td>
<td>Gregory Gregoriadis, Professor Emeritus, University College London, United Kingdom, Founder, Senior Research Adviser at Xenetic Biosciences Inc.</td>
</tr>
<tr>
<td>09:30-10:00</td>
<td>New development in sustained release protein therapy: the TargetAMD cell/gene therapy and clinical trial</td>
<td>Daniel Sherman, Professor, University of Paris</td>
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<tr>
<td>10:00-10:30</td>
<td>Solid Phospholipid Nanoparticles (SPLN)- an approach to improve the oral bioavailability of poorly soluble drugs</td>
<td>Annette Bauer-Brandl, Professor, University of Southern Denmark</td>
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<tr>
<td>10:30-11:00</td>
<td><strong>COFFEE BREAK // POSTER VIEWING</strong></td>
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<tr>
<td>11:00-11:30</td>
<td>Self-assembled drug delivery systems</td>
<td>Dimitrios Fatouros, Assistant Professor, Department of Pharmaceutical Technology, School of Pharmacy, Aristotle University of Thessaloniki</td>
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<tr>
<td>11:30-12:00</td>
<td>New methods to produce liposomal adjuvants</td>
<td>Pierre Yvonne, Professor Strathclyde Institute of Pharmacy and Biological Sciences, University of Strathclyde</td>
</tr>
<tr>
<td>12:00-12:30</td>
<td>Understand, control, predict and improve the performance of inhalation products. Particle engineering</td>
<td>Alessandra Rossi, PhD, Assistant Professor, University of Parma, Department of Pharmacy</td>
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<tr>
<td>12:30-13:00</td>
<td>Characterization and optimization of novel multifunctional freeze dried emulsions using experimental design</td>
<td>Stavros Politis, Faculty of Pharmacy, University of Athens</td>
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<td>13:00-13:30</td>
<td>Self-emulsifying pellets: Relations between kinetic parameters of drug release &amp; emulsion reconstitution</td>
<td>Stavros Malamataris, Emeritus Professor, School of Pharmacy, University of Thessaloniki</td>
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<td>13:30-15:00</td>
<td><strong>BREAK // POSTER VIEWING</strong></td>
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<tr>
<td>15:00-15:30</td>
<td>Antibody Guided Nanoparticles vs Antibody Drug Conjugates: A Quantitative Approach for Cell Trafficking and Potency Comparisons using the Avidin Nucleic Acid Nano System (ANANAS) Platform</td>
<td>Margherita Morpurgo, Assistant Professor, Pharmaceutical Sciences Department, University of Padova</td>
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<tr>
<td>15:30-16:00</td>
<td>Theranostics Imaging &amp; drug delivery</td>
<td>Maria Thanou, Senior Lecturer Erasmus and International Exchange Academic Co-ordinator, MSc Pharmaceutical Technology Programme director, King’s College London, Institute of Pharmaceutical Science</td>
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<tr>
<td>16:00-16:30</td>
<td>From Liposomes to exosomes and vice versa. An approach to trigger progress towards active targeted DDS’s?</td>
<td>Sophia Antimisiaris, Professor, Department of Pharmacy, University of Patras</td>
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<tr>
<td>16:30-17:00</td>
<td><strong>COFFEE BREAK // POSTER VIEWING</strong></td>
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<tr>
<td>17:00-17:30</td>
<td>Supramolecular architectures for smart drug targeting</td>
<td>Paolo Caliceti, Professor, University of Padova</td>
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<td>17:30-18:00</td>
<td>Structure-based thermodynamics of proteins and biomolecular interactions with pharmaceutical interest</td>
<td>George Nounesis, Director of Research, Biomolecular Physics Laboratory, NCSR “Demokritos”</td>
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<tr>
<td>18:00-18:30</td>
<td>The dissolution-permeation-interplay of enabling oral drug formulations</td>
<td>Martin Brandl, Professor, Department of Physics, Chemistry and Pharmacy, University of Southern Denmark</td>
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<td>18:30-19:00</td>
<td>Reaction limited model of drug dissolution: Important... but of low status in Pharmaceutics/Biopharmaceutics</td>
<td>Panos Macheras, Emeritus Professor, Faculty of Pharmacy, University of Athens</td>
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<tr>
<td>19:00 19:30</td>
<td><strong>AWARDS OF THE LOCAL GREEK CHAPTER OF CRS</strong></td>
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## Biopharmaceutics PK-PD

**Moderators:** P. Macheras - S. Antimisiaris

<table>
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<tbody>
<tr>
<td>09:00-09:30</td>
<td>Reading my research notebook</td>
<td>Athanassios Iliadis, Full professor, Faculty of Pharmacy, Pharmacometrics &amp; Modeling</td>
<td>Aix-Marseille University, France</td>
</tr>
<tr>
<td>09:30-10:00</td>
<td>Nano-drugs in oncology: hype or hope?</td>
<td>Joseph Ciccolini, Aix-Marseille University, France</td>
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<tr>
<td>10:00-10:30</td>
<td>Harnessing pharmacological knowledge for enabling drug delivery in personalized medicine</td>
<td>Ioannis Vizirianakis, Associate Professor of Molecular Pharmacology &amp; Pharmacogenomics, Aristotle University of Thessaloniki</td>
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<tr>
<td>10:30-11:00</td>
<td><strong>COFFEE BREAK // POSTER VIEWING</strong></td>
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<tr>
<td>11:00-11:30</td>
<td>Can oral absorption problems of lipophilic weak bases in humans be mitigated by administering salts?</td>
<td>Christos Reppas, Professor, School of Pharmacy, University of Athens</td>
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<tr>
<td>11:30-12:00</td>
<td>PK/PD modelling in children</td>
<td>Aris Dokoumetzidis, Assistant Professor, School of Pharmacy, University of Athens</td>
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<tr>
<td>12:00-12:30</td>
<td>Modeling in Bioequivalence: Science, Solutions, Benefits</td>
<td>Vangelis Karalis, Lecturer, Faculty of Pharmacy, University of Athens</td>
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<tr>
<td>12:30-13:00</td>
<td>Dried Blood and Plasma Spots in Modern Bioanalysis</td>
<td>Yannis Dotsikas, Assistant Professor, Department of Pharmaceutical Chemistry, University of Athens</td>
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<tr>
<td>13:00-14:00</td>
<td>How to Write Great Papers - From title to references, from submission to publication</td>
<td>Jaap van Harten, Executive Publisher Pharmacology &amp; Pharmaceutical Sciences Elsevier, Amsterdam, The Netherlands</td>
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14.00  **CLOSING CEREMONY**
PP001 FORMULATION AND IN VITRO EVALUATION OF FLOATING MATRIX TABLETS OF METFORMIN – AN ORAL ANTI-DIABETIC DRUG USING Grewia mollis GUM
C.O Airemwen, M.U Uhumwangho
University of Benin, Benin-City, Nigeria

PP002 RHODOMYRTONE: FROM BASIC RESEARCH TO PHARMACEUTICAL APPLICATIONS
S. P. Voravuthikunchai
Prince of Songkla University, Hat Yai, Songkhla, Thailand

PP003 EVALUATION OF MODIFIED RELEASE FORMULATIONS OF A NEW 1,3-DISUBSTITUTED AMINODAMANTANE DERIVATIVE WITH TUBERCULOCIDAL ACTIVITY
M. Vlachou*, A. Iliopoulou, A. Siamidi, V. Ioannidou, V. Kourbei, A-S. Foscolos, V. Karalis, I. Papanastasiou*
National and Kapodistrian University of Athens, Greece

PP004 MODIFIED RELEASE STUDIES FROM MATRIX TABLETS OF A NEW 2,2-DISUBSTITUTED AMINODAMANTANE DERIVATIVE WITH ANTITUBERCULORAR ACTIVITY
M. Vlachou*, E. Diamantidi, A. Siamidi, V. Ioannidou, V. Kourbei, A-S. Foscolos, I. Papanastasiou*
National and Kapodistrian University of Athens, Greece

PP005 DEVELOPMENT OF HPLC-HILIC-METHOD FOR QUALITY CONTROL OF ESTRADIOL HEMIHYDRATE
D. Obreshkova, S. Ivanova, D. Tsvetkova
Faculty of Pharmacy, Medical University-Sofia, Sofia, Bulgaria

PP006 QUALITY CONTROL OF CITALOPRAM AND VENLAFAXINE – PATENT STATUS AND DEVELOPMENT OF ANALYTICAL PROCEDURES
Lily Peikova1, Ianka Pencheva1, Guenka Petrova2, Manuela Manova2
Medical University in Sofia, Faculty of Pharmacy, 1Department of Pharmaceutical chemistry, 2Department of Social Pharmacy

PP007 SELF-NANOEMULSIFYING DRUG DELIVERY SYSTEMS OF CILOSTAZOL: DEVELOPMENT, IN VITRO AND IN VIVO EVALUATION
Mahmoud DB1, Shukr MH1, Bendas ER2
1National Organization of Drug Control and Research, Cairo, Egypt 2Department of Clinical Pharmacy, Faculty of Pharmacy, Future University in Egypt

PP008 TWO IN ONE AGAINST BREAST CANCER: OVERVIEW AND CHARACTERIZATION OF A [DOCETAXEL-TRASTUZUMAB] IMMUNOLIPOSOME
A. Rodallec1, J.M. Brunel1, F. Correard1, G. Sicard1, S. Giacometti1, C. Ornetto1, J. Ciccolini1, R. Fanciullino1
1Aix-Marseille University, Marseille, France

PP009 EFFECTS OF NEWLY SYNTHESIZED N-PYROLYLCARBOXYLIC ACID HYDRAZONES, WITH ESTABLISHED ANTI-TUBERCULAR ACTIVITY, ON ISOLATED RAT HEPATOCYTES
M. Georgieva, M. Kondeva-Burdina, V. Tzankova, Al Zlatkov
Medical University-Sofia, Bulgaria

PP010 SPECTRAL ANALYSIS AND STRUCTURAL ELUCIDATION OF SYNTHESIZED PYRROLE HYDRAZONE DERIVATIVE WITH ANTITUBERCULAR ACTIVITY THROUGH QUANTUM CHEMICAL CALCULATIONS
M. Georgieva1, S. Stanchev2, J. Mitkov1, Al Zlatkov1
1Medical University, Faculty of Pharmacy, Sofia, Bulgaria 2Czech Academy of Sciences, Prague, Czech Republic

PP011 SYNTHESIS, CARACTHERIZATION AND EVALUATION OF THE PROPERTIES OF TWO DIFFERENT HOLLOW NANOCARriers FOR DRUG DELIVERY
G. Toniolo1,2, E. Efthimiadou1, G. Kordas1, C. Chatgilaloglu1
1Institute of Nanoscience and Nanotechnology, National Center for Scientific Research Demokritos, Athens, Greece 2Università degli Studi di Ferrara, Ferrara, Italy

PP012 CHEMICAL COMPOSITION OF DIFFERENT EXTRACTS FROM WILD AND CULTIVATED VARIETIES OF VALERIANA OFFICINALIS ANALYSED BY GC AND GC/MS
N. Benbassat1, S. Berkov2, I. Ivanova2
1Medical University-Sofia, Bulgaria 2Institute of Biodiversity and Ecosystems Research, Sofia, Bulgaria

PP013 DESIGN AND DEVELOPMENT OF HYBRID LIPID/BLOCK COPOLYMER NANOSTRUCTURES: PHYSICOCHEMICAL, MORPHOLOGICAL AND IN VITRO EVALUATION
N. Pippa1,2, D. Stellas1, A. Skandalis1, S. Pispas1, C. Demetzos1
1National and Kapodistrian University of Athens, Athens, Greece 2National Hellenic Research Foundation, Athens, Greece

PP014 CONTROlLED DRUG RELEASE FROM PH-RESPONSIVE POLYMER-GRAFTED PHOSPHOLIPID BLyAVERS
N. Nazir1, N. Pippa1,2, A. Meristoudi1, S. Pispas1, C. Demetzos1
1National and Kapodistrian University of Athens, Athens, Greece 2National Hellenic Research Foundation, Athens, Greece
**PP015**
The physicochemical characteristics of cosmeceutical vehicle in cosmetic product series for acne (Acnofix®): innovation and efficacy
N. Pippa1, I. Tseti2, C. Demetzos1
1National and Kapodistrian University of Athens, Athens, Greece
2InterMed Pharmaceutical laboratories SA, Kifissia, Greece

**PP016**
In silico design and synthesis of novel quinoline carboxamides as potential cyclooxygenase-2 inhibitors
N. Rakovitis1, A. Tzani2, E. Kritsi1, P. Zoumpoulakis2, A. Detsi1
1Laboratory of Organic Chemistry, School of Chemical Engineering, National Technical University of Athens, Athens, Greece
2Institute of Biology, Medicinal Chemistry and Biotechnology, National Hellenic Research Foundation, Athens, Greece

**PP017**
A comparative RP-HPLC analysis of different batches of tenofovir disoproxil fumarate tablets
V. Mašlarska, S. Bozhovan, B. Zlatkov, A. Zlatkov
Medical University - Sofia, Faculty of Pharmacy, Sofia, Bulgaria

**PP018**
Trans phospholipid-containing liposomes: promising drug delivery system and synergetic strategy for cancer therapy
G. Giacometti1,2, C. Chatgilialoglu3, C. Ferreni1
1Institute of Nanoscience and Nanotechnology, NCSR “Demokritos”, Athens, Greece
2iSOF, Consiglio Nazionale delle Ricerche, Bologna, Italy
# PhD program in “Medical, Pharmaceutical and Veterinary Medical Sciences”, XXX cycle, Alma Mater Studiorum - University of Bologna, Italy

**PP019**
Synthesis of new hybrid quinolinone-chalcones and pyrazoline analogues with combined anti-oxidant and anti-inflammatory activity
I. Kostopoulou1, A. Diassakou1, E. Kavetsou1, A. Tzani1, M. Roussaki1, D. Hadjipavlou-Litina2, A. Detsi1
1National Technical University of Athens, Greece
2Aristotle University of Thessaloniki, Greece

**PP020**
Quantifying drug release kinetics using Monte Carlo simulations
G. Kalosakas1,2, A. Hadjitheodorou1, D. Martini1
1University of Patras, Rio GR-26504, Greece
2CCQCN, University of Crete, Heraklion GR-71003, Greece
3Stanford University, California, USA

**PP021**
Encapsulation of tyrosol in poly(lactic)acid nanoparticles
E. Kavetsou1, A. Schoina1, N. Kyntsis1, M. Liouni1, C. Papaspyrides1, S. Vouyiouka1, A. Detsi1
1National Technical University, Athens, Greece
2National and Kapodistrian University of Athens, Greece

**PP022**
Design and synthesis of new 2,3-disubstituted-quinazolin-4(3H)-one analogues as lipoxygenase inhibitors
A. Vrynas1, A. Tzani1, K. C. Prousis1, C. Potamitis1, A. Papadopoulou1, T. Calogeronopoulou1, H. Stamatis2, P. Zoumpoulakis2, A. Detsi1
1National Technical University of Athens, Athens, Greece
2National Hellenic Research Foundation, Athens, Greece

**PP023**
Encapsulation of grapefruit essential oil in biodegradable poly(lactic acid) (PLA) nanoparticles
M. Kotrona1,2, E. Kavetsou1, S. Loupassaki1, C. Papaspyrides1, E. Evergetis1, S. Haroutoumanis1, S. Vouyiouka1, A. Detsi1
1National Technical University of Athens, Athens, Greece
2Mediterranean Agronomic Institute of Chania, Chania, Crete, Greece
3Agricultural University of Athens, Athens, Greece

**PP024**
Photoprotective characteristics of new phenolic esters
M. Miliaronikolaki1, A. Tzani1, N. Paraskevopoulos2, A. Detsi1
1National Technical University of Athens, Greece
2CELLCO Chemicals S.A., Mandra Attika, Greece

**PP025**
Verification of Weibull kinetics through the behavior near the release boundary
E. V. Christidi1, G. Kalosakas1
1University of Patras, Rio, Greece
2Crete Center for Quantum Complexity and Nanotechnology, University of Crete, Heraklion, Greece

**PP026**
A comparison of the pharmacokinetics of inhaled salmeterol in healthy and asthmatic subjects: a population pharmacokinetic analysis
K. Soulele, P. Macheras, V. Karalis
National and Kapodistrian University of Athens, Athens, Greece

**PP027**
In vitro skin permeation study of candesartan using experimental design techniques
M. Vatmanidou1, N. Aligiannis1, P. P. Dallas1, D. M. Rekkas1
1Faculty of Pharmacy, National and Kapodistrian University of Athens, Athens, Greece

**PP028**
Novel indole-flutimide heterocycles with activity against influenza pa endonuclease and hepatitis C virus
E. Giannakopoulou1, A. Stevaert2, E. Frakolaki1, V. Myrianthopoulos1, E. Mikros1, N. Vassilaki1, R. Bartenschlager1,2, L. Naesens1, G. Zoidis1
1Faculty of Pharmacy, University of Athens, Athens, Greece
2Rega Institute for Medical Research, KU Leuven – University of Leuven, Belgium
3Hellenic Pasteur Institute, Athens, Greece
4Molecular Virology, University of Heidelberg, Germany
5German Center for Infection Research, Heidelberg University
PP029
DRY POWDERS OF HYBRID LIPID-POLYMER MICROPARTICLES FOR PULMONARY DELIVERY OF BUDENOSIDE
G.K. Eleftheriadis¹, M. Akrivou¹, N. Bouroupolos¹, I.S. Vizirianakis¹, D.G. Fatouros¹
¹Aristotle University of Thessaloniki, Thessaloniki, Greece

PP030
PERMEATION ENHANCEMENT OF MACROMOLECULES ACROSS HUMAN SKIN IN VITRO BY A MICRONEEDLE DEVICE (DERMAROLLER) AND TERPENES
E. Kontogiannidou¹, N. Bouropoulos², D. Andreadis¹, E. Demiri¹, C. Karavasili¹ A. Zografos¹, D.G. Fatouros¹
¹University of Patras, Patras, Greece

PP031
PHARMACOLOGICAL ASSESSMENT OF HIERARCHICAL ZEOLITES BEA, NaX-FAU AND ZSM-5 FOR ORAL DELIVERY OF POORLY SOLUBLE DRUGS
E.P. Amanatiadou⁰, C. Karavasili⁰, G.K. Eleftheriadis⁰, E. Kontogiannidou, I.S. Vizirianakis⁰, D.G. Fatouros⁰
¹Aristotle University of Thessaloniki, Thessaloniki, Greece

PP032
DESIGN AND SYNTHESIS OF HYBRIDS OF STAUROSPORINE AND EVODIAMINE WITH POSSIBLE ANTICANCER ACTIVITY
A. D. Kalampaliki¹, A.-L. Skaltsounis, I.K. Kostakis¹
¹Division of Pharmaceutical Chemistry, Faculty of Pharmacy, National & Kapodistrian University of Athens, Greece

PP033
DESIGN, SYNTHESIS AND PHARMACOLOGICAL EVALUATION OF NOVEL AZA-ACRIDINE DERIVATIVES WITH ACTIVITY AGAINST TOPOISOMERASES
M. Karelou¹, K. Agama², Y. Pomier², I. K. Kostakis¹
¹University of Athens, Panepistimiopolis-Zografou, Athens
²National Institutes of Health, National Cancer Institute of Bethesda

PP034
ENGINEERED CELL VESICLES FOR DRUG DELIVERY
A. Basta¹, K. Papadiaz¹, S.G. Antimisiaris¹,²
¹University of Patras, Patras, Greece;
²Institute of Chemical Engineering & Sciences, FORTH/ICES, Patras, Greece

PP035
POPULATION PHARMACOKINETIC MODELING APPLIED TO THE PLASMA CONCENTRATION-TIME DATA OF DONEPEZIL
K. Stratogianni, V. Karalis
National and Kapodistrian University of Athens, Athens, Greece

PP036
IDENTIFYING RELATIONSHIPS BETWEEN THE PHARMACOKINETIC PROPERTIES OF DRUGS AND TWO CLASSIFICATION SYSTEMS, BCS AND BBDCS
C. Daoussani, P. Macheras, V. Karalis
National and Kapodistrian University of Athens, Athens, Greece

PP037
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A. Metsiou¹,²,³, A. Polyxeni, F. Liepouri, M. Marantzi, A. Strongilos, A. Papakyriakou, C. Papanoephytou, E. Ntougkos, K. Tsilouka, E. Donni, G. Kollias, E. Couladouros, E. Biopoulou, J.L. Ferrer, G. Kontopidis
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²Institute de Biologie Structurale (IBS), Grenoble, France
³Centre for Research and Technology of Thessaly (CERETETH), Volos, Greece

PP038
DERMATOPHARMACOKINETICS OF [14C]-α-TOCOPHEROL AND α-TOCOPHEROL IN HAIRLESS MOUSE SKIN IN VIVO
M. Rallis¹, M. Kyriazi¹, P. Dallas¹, M. Potsi, M.G. Traber³, C. Weber¹, L. Packer³, H.I. Maibach⁶
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⁵Department of Pharmacology & Pharmaceutical Sciences, School of Pharmacy, University of Southern California, Los Angeles, CA 90089-9121, USA
⁶UCSF School of Medicine, Department, Dermatology, Address, 90 Medical Center Way, Surge San Francisco CA 94143, USA

PP039
ANALYSIS OF THE CONTROLLED DRUG RELEASE (CDR) FROM BIOPOLYMER NANOPARTICLES DURING THE INITIAL BURST USING A NOVEL MODELING METHOD
Cristiana de Azevedo¹, Moritz von Stosch², Rui Oliveira³
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²CEAM, University of Newcastle, Newcastle, United Kingdom

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DESIGN OF LIPOIC- OR IBUPROFEN-SUBSTITUTED MORPHOLINE DERIVATIVES YIELDING IMPROVED ANTIOXIDANT, ANTI-INFLAMMATORY AND HYPOLIPIDEMIC ACTIVITY
M.A. Giasafaki, M. E. Pappa, A. P. Kourounakis
Dept. of Medicinal Chemistry, Faculty of Pharmacy, School of Health Sciences, National & Kapodistrian University of Athens, Greece

PP041
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M.A. Giasafaki, M. Potsi, A. P. Kourounakis
Dept. of Medicinal Chemistry, Faculty of Pharmacy, School of Health Sciences, National and Kapodistrian University of Athens, Greece

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ENHANCING ANTIOXIDANT & INTRODUCING ANTIINFLAMMATORY ACTIVITY BY STRUCTURAL MODIFICATION OF KNOWN ANTIOXIDANTS
M.A. Giasafaki, A. P. Kourounakis
Dept. of Medicinal Chemistry, Faculty of Pharmacy, School of Health Sciences, National and Kapodistrian University of Athens, Greece
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D. Stamatis1,2, G.F. Ecker2, A.P. Kourounakis1
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2University of Vienna, Vienna, Austria

DEVELOPMENT AND VALIDATION OF AN HPLC-FLUORESCENCE METHOD FOR THE DETERMINATION OF ANIDULAFUNGIN AND MICAFUNGIN IN HUMAN PLASMA: APPLICATION TO A PHARMACOKINETIC STUDY

S. Apostolidi1, E. Neroutsos1, G. Valsami1, A. Dokoumetzidis1, J. Meletiadis1, M. Siopi1
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2Attikon General Hospital, National and Kapodistrian University of Athens, Greece

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S. Apostolidi1, E. Neroutsos1, M. Siopi1, J. Meletiadis1, A. Dokoumetzidis1, G. Valsami1
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THE IMPACT OF SAFFRON AQUEOUS EXTRACT ADMINISTRATION ON Atherosclerosis DEVELOPMENT IN AN EXPERIMENTAL ANIMAL MODEL

Ei. Christodoulou1, Z.I. Kakazanis2, N. Kadogliou1, N. Kostomitsopoulos2, G. Valsami1
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2Centre of Clinical Experimental Surgery and Translational Research, Biomedical Research Foundation Academy of Athens, Greece
3University College London, London, U.K.

CORRELATION OF CYP2C19 GENOTYPE WITH PLASMA VORICONAZOLE CONCENTRATIONS: A PRELIMINARY RETROSPECTIVE STUDY IN GREEK PATIENTS

G. Kiniakou1, E. Neroutsos1, A. Dokoumetzidis1, M. Siopi1, J. Meletiadis1, S.L. Markantoni1, G. Valsami1
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2National and Kapodistrian University of Athens, School of Medicine, Clinical Microbiology Laboratory, Attikon University Hospital

COLISTIN CONCENTRATIONS IN BRONCHOALVEOLAR LAVAGE FLUID AND SERUM FOLLOWING ADMINISTRATION OF NEBULIZED COLISTIMETHATE SODIUM

M. Thalassinou1, A. Dokoumetzidis1, S. Averopoulou2, A. Koutsoukou1, S.L. Markantoni1, G. Valsami1
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2National and Kapodistrian University of Athens, School of Medicine, Clinic of Respiratory Diseases I, Athens Hospital for Chest Diseases “Sotiria”

A NEW PROCESS FOR THE RECOVERY OF BIOACTIVE INGREDIENTS FROM MASTIC GUM

A. Angelis1,2, M. Hamzaoui1, V. Laskari1, A. Termentzi1, J. Hubert2, N. Fokialakis1, N. Aligiannis1, J.-H. Renault1, A.-L. Skaltsounis1
1UMR CNRS 7312, Université de Reims Champagne-Ardenne, Bât. 18, Moulin de la Housse, BP 1039, 51687 Reims, Cedex 2, France
2UMR CNRS 7312, Université de Reims Champagne-Ardenne, Bât. 18, Moulin de la Housse, BP 1039, 51687 Reims, Cedex 2, France

DEVELOPMENT AND VALIDATION OF A UPLC METHOD FOR QUANTIFYING TRANS-CROCIN 4 AND CROCEtin FROM SAFFRON IN PLASMA: A PHARMACOKINETIC STUDY

E. Karkoula1, N. Lemonakis1, N. Kokras1, C. Dalla1, E. Gikas2, A.-L. Skaltsounis2, A. Tsarbopoulos1,3
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3GAIA Research Center-The Goulandris Natural History Museum, Kifissia, Greece

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V. Boznou, P. Polychronopoulos, M. Zervos, M. Stavropoulou, N. Aligiannis
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GREEK FLORA AS A SOURCE FOR THE DISCOVERY OF NOVEL OSTEOPROTECTIVE AGENTS

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EXPLOITATION OF AGRICULTURAL BY-PRODUCTS FOR THE RECOVERY OF BIOACTIVE COMPOUNDS WITH APPLICATIONS IN COSMETIC INDUSTRY

P. Vlachou, K. Georgousaki, A. Termentzi, K. Stathopoulou, N. Aligiannis, L.A. Skaltsounis, N. Fokialakis
National and Kapodistrian University of Athens, Athens, Greece

GREEK FLORA AS A SOURCE OF NEW ANTI-OXIDANT, ANTI-ELASTASE, ANTI-COLLAGENASE AND ANTI-HYALURONIDASE NATURAL AGENTS

University of Athens, Panepistimiopolis Zografou, Athens, Greece

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2National Hellenic Research Foundation, Athens, Greece
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2Institute of organic chemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria
3Universite Paris Descartes, Paris, France
4Centre de Biotechnologie de Sfax, Tunisia
5Centre de Recherches en Analyses Physicochimiques, Algeria
6University Ibn Zohr, Morocco
7Venus Roses Lab Solutions, Sofia, Bulgaria
8Galen-N, Sofia, Bulgaria
9VivaCell, Dendlingen, Germany
10Phycosourse, Paris, France
11Chios Mastic Growers Association, Chios, Greece
12Iasis Pharma, Athens, Greece

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K. Georgousaki1, N. Tsafantakis1, S. Gumeni2,3, S. Fotinos2, I.P. Trougakos2, N. Fokialakis1
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3Lavipharm SA, Agias Marinas, Paiania Attica, Greece

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D. Benak1, M. Sani1, E. Baira1, E. Gikas1, E. Mikros1, J. Ouazzani3, N. Fokialakis1
1University of Athens, Athens, Greece
2National Center for Scientific Research, Gif sur Yvette, France

PP059
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N. Aligiannis1, A. Boulaka2, M. Makropoulou1,2, P. Gerolymatos3, R. Simons4, T. Perrinjaquet-Moccetti4, L.A. Skaltsounis1,3, M.N. Alexis2, N. Fokialakis1
1University of Athens, Athens, Greece
2National Hellenic Research Foundation, Athens, Greece
3PharmaGnose SA, Inofyta, Greece
4Frutarom Switzerland Ltd, Wädenswil, Switzerland

PP060
MALDI TOF IMAGING MASS SPECTROMETRY OF FORMALIN-FIXED PARAFFIN-EMBEDDED TISSUES OF PROSTATE CANCER
Irene Panderi1,2, Evgeny Yakirevich2, Leila Noble1, Dennis Pantazatos1
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2National and Kapodistrian University of Athens, Department of Pharmacy, Division of Pharmaceutical Chemistry, Laboratory of Pharmaceutical Analysis, Athens, Greece
3Brown University, Warren Alpert Medical School, Department of Pathology, Rhode Island Hospital, Providence, RI, USA

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ASYMPTOTIC ANALYSIS ON A TARGET MEDIATED DRUG DISPOSITION MODEL: ALGORITHMIC AND TRADITIONAL APPROACHES
Dimitris G. Patsatzis, Dimitris T. Maris and Dimitris A. Goussis
National Technical University of Athens, 157 73 Athens, Greece

PP062
WHEN A REACTION IN A PHARMACOKINETIC MODEL CONTRIBUTES TO THE CONSUMPTION OF ITS PRODUCT
Lida Michalaki and Dimitris A. Goussis
National Technical University of Athens, 157 73 Athens, Greece
**GENERAL INFORMATION**

**Congress Secretariat**
The Congress Secretariat is located at the foyer of Olympia Hall during the following days and hours.

**Hours of Operation**
- **Wednesday, June 22, 2016** 08:00 - 19:30
- **Thursday, June 23, 2016** 08:30 - 19:30
- **Friday June 24, 2016** 08:30 - 14:00

**Congress Venue**
Aegli Zappiou
Kipos Zappiou, Athens 105 57
Tel. 210-3369300, Fax. 210-3252952
web: www.aeglizappiou.gr

**Lecture Hall**
OLYMPIA HALL

**Congress Material**
Badges & Congress material can be provided by the Congress Secretariat. The badges are absolutely necessary for the admission and access to the Congress hall.

**Internet access**
Wireless Internet access is provided free of charge. Participants may use their own laptops.

**Lost & Found**
For lost & found items, please contact the Congress Secretariat.

**Certificate of Attendance**
A Certificate of attendance will be available for all registered participants at the Congress Secretariat, on **Friday June 24th**.

**Official Language**
The Congress’ official language is English. No interpretation will be provided.

**Coffee Breaks**
Coffee is offered to all registered participants according to the time schedule announced in the Program.

**Important Dates**
- **Congress dates:** June 22-24, 2016
- **Opening Ceremony & Welcome Reception:** June 22nd, 2016
- **Gala Dinner:** June 23rd, 2016

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**REGISTRATIONS**

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<th>Registration Fees</th>
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<td>Participants</td>
<td>300€</td>
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<td>Students</td>
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Registration Fees include:
Admission to the Congress Sessions, Final program, Congress bag, Welcome reception, Coffee breaks, Certificate of attendance.

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**DESTINATION INFORMATION**

**The City of Athens**
Athens - The city of mythology and modernity, the city of history and vision. 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 considered one of Europe’s safest capitals; its transportation network is user-friendly; there are numerous museums and archeological sites and hundreds of restaurants to satisfy every taste. Surrounded by a lining of stunning seas and mountains, Athens is filled with gems just waiting to be discovered. Located at the crossroads of three continents, the capital of Greece with an overall population of close to four million has often been the hub of many cultures. Characterized by a culture and people that are welcoming and hospitable, every visitor just feels at home. Athens takes the fuss out of sightseeing. 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, modern amenities, diverse entertainment and natural beauty. In addition, most hotels in Athens underwent extensive renovation in preparation of the 2004 Olympic Games, a great benefit for contemporary visitors that can enjoy comfortable and stylish accommodation.

**From the Airport:** The airport is easily accessible from MAICC and the city centre via motorway, express bus or metro. An average journey by taxi from the airport to the city centre should take approximately 40–50 minutes, depending on traffic, costing around € 25–30. The express bus line X95 (direction “Syntagma”) serves Athens city centre & MAICC. The metro line 3 runs every 10 minutes from the airport and the trip to “Megaro Moussis” station takes approximately 30 minutes.
Travelling in & around Athens
The Athens public transportation network offers a wide variety of routes, combining many different means, namely the metro, railway, buses, trolley buses and trams. With a 1,40 € ticket anyone can move around using one or more means of transport within 1 hour and 30 minutes. Tickets are available at all metro and train stations as well as at the kiosks on the streets. Day or weekly tickets are also available offering public transport at a discounted rate. When travelling on the bus, metro, railway and tram, passengers are required to validate their tickets after purchasing them and before boarding (metro, tram) or on board (busses etc). The fine for a nonvalidated ticket in Athens is 40 times its value. The validation machines in the buses and trolley buses are orange boxes. On the metro, the boxes are in the station lobby and on the tram, there are beige boxes located on the platform and inside the car. 

- One Way Ticket: 1.40 €
- Airport Express Bus Lines Ticket: 5 € (valid only for one trip from or to the airport)
- Airport Metro And Suburban Railway Ticket: 10 € (valid only for one trip from or to the airport)
- Day ticket: 4 € (valid for all means of public transport for 24 hours)
- Weekly ticket: 14 € (valid for all means of public transport for 7 days)

Currency & Banking
Greece is a full member of the European Union since 1981 and its currency is the Euro (€). All major credit cards are widely accepted in Greece. ATMs and Exchange Offices are widely available.

Foreign currency may be exchanged to Euros at most Greek and foreign banks and at exchange bureaus located in the city centre. Travelers are kindly requested to bring their passport when exchanging money as they will need it for the transaction. Traveler’s checks and credit cards issued by major companies are also widely recognized and an accepted means of purchasing items in Athens.

Banks are open to the public, Monday through Thursday 08:00 to 14:30 and Friday 08:00 to 14:00, except for public holidays. ATMs can be found almost everywhere.

Sightseeing
Athens takes the fuss of sightseeing. It is a user-friendly town thanks to the pleasant demeanor of the English speaking Athenians and the easy to use and manageable transportation system. The visitor can see a lot in one day. Archaeological Sites & Classical Greek, Byzantine & Ottoman Monuments, Museums, Art Galleries, street performances, festivals and many other attractions. Needless to say, the Acropolis remains a “must see”… There is a special ticket package at the price of € 12 with which the visitor can visit almost all archaeological sites within the Athens City

Center, namely:
- The Acropolis of Athens (The Museum is not included)
- The Ancient Agora
- Kerameikos
- The North slope of Acropolis
- Olympeion
- The Roman Agora
- The South Slope of Acropolis

This special ticket package can be bought at the entrance of each one of the above mentioned archaeological sites.

Shopping
Shopping in Athens can be fascinating and satisfying experience for all. There are many well-known international name brand outposts and traditional Greek art and folklore shops. The visitor must make sure to stop in at least one of the many wonderful year-round outdoor cafes and restaurants in order to make his experience of shopping in the Athenian way, complete!

Shopping Hours:
Major outlets:
Monday - Friday 09:00 to 21:00
Saturday 09:00 to 18:00
Other Shops:
Monday, Wednesday & Saturday 09:00 to 15:30
Tuesday, Thursday & Friday 09:00 to 20:30

Insurance & Liability
The Organizers accept no liability for any personal injury, loss or damage of property or additional expenses incurred to Conference participants either during the Conference or as result of delays, strikes or any other circumstances. Participants are requested to make their own arrangements with respect to health and travel insurance.

Electricity
The electricity current in Greece is 220v, 50Hz and the socket type is European Standard.

Health
Public hospitals work on a rotation basis with regards to dealing with emergency incidents. To find out which hospitals are open for emergency incidents at a specific time, dial 14944. Treatment in public hospitals is free of charge.

Restaurants
Restaurants and taverns are normally open for lunch from 12.30hrs to 16.00hrs, for dinner from 19.00hrs to midnight. Fast food and Souvlaki shops usually serve food all day long, and some of them stay open till late at night. Cafes and Bars are open all day long until late at night.

Tipping
Tipping is not compulsory, but it is quite usual in Greece.

Mobile Phones
Please note that mobile phones must be switched off during all sessions.

Smoking Policy
Starting from July 1st 2009 smoking is prohibited by the law at all indoor public areas in Greece.

Weather
The average daytime temperature in June can vary between 22°C and 29°C.
Emergency phone numbers
Ambulance 166
Fire Brigade 199
Hospitals 14944
Athens International Airport 210 3530000
Pharmacies on duty 14944
Poisoning Treatment Centre 210 7793777
Police 100
SOS Doctors 1016
Telephone Directory Service 11888
Tourist Police 71
European Emergency Number 112

Telecommunications
The international access code for Greece is +30 and for Athens 210. The outgoing code is 00 followed by the relevant country code.

Time
Greece is two hours ahead of Greenwich Mean Time GMT+2 Greece 12:00 - London 10:00 - New York 05:00 - Sydney 20:00
Από μικρόι ήμασταν περίεργοι ...

...να ανακαλύψουμε ποιο είναι το πιο σημαντικό πράγμα στον κόσμο. Όταν το βρήκαμε αποφασίζαμε να κάνουμε έργο ως την προάσπιση και εξασφάλιση της υγείας.

Είμαστε στο πλευρό της ιατρικής κοινότητας παρέχοντας φαρμακευτικά προϊόντα υψηλής ποιότητας, προσπαθώντας να έχουν πρόσβαση σε αυτά, όλοι οι συνάνθρωποί μας.

Παρακαλούμε, παραμένοντας αποφασισμένοι, παραμένοντας στο πλευρό σας με τον ενδιαφέρον και την επιμονή μικρού παιδιού.
Μετατρέποντας τον κώδικα της ζωής σε καινοτόμα φάρμακα

Στην Amgen πιστεύουμε ότι οι απαντήσεις στα πλέον επιτακτικά ιατρικά ζητήματα είναι καταγεγραμμένες στο DNA μας.

Ως πηγέτιδα εταιρεία στο χώρο της βιοτεχνολογίας παγκοσμίως, η Amgen χρησιμοποιεί τη βαθιά κατανόηση του κώδικα του DNA για την ανάπτυξη στοχευμένων θεραπειών που καλύπτουν τις ανάγκες των ανθρώπων με σοβαρές ασθένειες και βελτιώνουν σημαντικά τη ζωή τους.