EUFEPS Annual Meeting 2018
Crossing Barriers for Future Medicines

24-26 May 2018 Titania Hotel Athens, Greece

Final Program
Dear colleagues,

After celebrating its 25th anniversary this year, EUFEPS is proud and happy to organize the 2018 Annual Meeting in Athens, Greece, in collaboration with Conference Co-Chair Prof. Panos Macheras, supported by University of Athens and with parallel tracks organized by EUFEPS Networks.

This meeting is focused on the theme “Crossing Barriers for Future Medicines”. The main track of the meeting continues throughout the scientific programme on May 24 to 26, covering basic sciences in oral and mucosal drug absorption and transport to innovative medicines and their PK/PD evaluation.

As the concept of future medicines involves an extensive systems approach for both development and for pre-clinical and clinical evaluation, parallel tracks will be organized by networks and EUFEPS member institutions and societies to discuss different aspects. Novel Molecular Targets and New Oncology Drugs track is held by German Pharmaceutical Society, Personalized Medicine tracks are organized by EUFEPS Network on Systems Pharmacology and Pharmacogenetics network EPRIN.

In total, we plan to hold this Annual meeting with 6 prominent Plenary Lecturers, several invited session/short course speakers and short oral presentations selected among the abstracts. EJPS Best Paper Award, Best Poster Award and EUFEPS Presidential Distinction Award is presented during the awards ceremony at the end of this conference.

We hope to bring together scientists from academia, industry and regulatory authority around the future of medicines and the role of pharmaceutical scientists in the heart of Athens in a beautiful and historic environment to continue the tradition of Pharmaceutical Sciences European meetings series in Frankfurt 2019 and on with strong scientific programs and affordable accommodation and registration fees.

Prof. Dr. Erem Bilensoy
EUFEPS President

Emeritus Professor Panos Macheras
Faculty of Pharmacy University of Athens

---

Organizing & Scientific Committee

**Organizers**

Panos Macheras, University of Athens, Greece
Erem Bilensoy, Hacettepe University, Turkey

**Members**

Meindert Danhof, Leiden University, The Netherlands
Rogério Gaspar, University of Lisbon, Portugal
Dieter Steinhilber, University of Frankfurt, Germany
Niklas Sandler, Abo Akademi University, Turku, Finland
Eva Szoko, Semmelweis University, Budapest, Hungary
Fabio Sonvico, University of Parma, Italy
Mani Johansson, SAPhS, Sweden
Henning Blume, Socrates, Germany
Jukka Rantanen, University of Copenhagen, Denmark
Beatriz Silva Lima, University of Lisbon, Portugal
Ana Alfirevic, University of Liverpool, UK

**EUFEPS’2018 Tracks**

- Physiology of the GI tract relevant for drug absorption
- Nanomedicines and nanosimilars: How to assess how similar?
- Performance of dosage forms in the GI tract and impact on drug absorption
- Nanomedicines: Challenges on the road
- Drug absorption, dissolution and in-silico modeling—towards prediction paradise?
- Manufacturing of future medicines
- Systems pharmacology
- Biotech and biosimilars: What is the next step for the future?
- Biotech and Biosimilars Development
- New drugs in oncology
- Information on drug absorption in regulatory processes—nice to know vs. need to know
- EUFEPS Network on Pharmacogenetics Research and Implementation
- Nanomedicines: the European Platform
- Nanomedicines from lab to market
- Nanotechnology in health sciences
- Enhanced drug delivery approaches
Scientific Program

Thursday, 24 May 2018
Apollon Hall

13.00-13.30  Opening of the EUFEPS 2018

Erem Bilensoy, EUFEPS President, Conference Co-Chair
Panos Macheras, EUFEPS Senator, Conference Co-Chair

13.30-14.00  PL-1 Stefan Knapp, Germany, “Novel molecular targets”

14.00-14.30  PL-2 Mansoor Khan, US “Innovations and nanomedicines: Balancing responsible science with regulations for success”

14.30-15.00  PL-3 Jukka Rantanen, Denmark, “Manufacturing of personalized medicines”


15.30-17.00  Physiology of the GI tract relevant for drug absorption

Chairs: G. Digenis - H. Derendorf

15.30-16.00  IL-1 Patrick Augustijns, Belgium “Intestinal drug absorption: What do we know and what should we understand better?”

16.00-16.30  IL-2 Martin Brandl, Denmark “Colloidal structures and drug absorption: from amorphous nanoparticles to bile salt micelles”

16.30-17.00  IL-3 Panos Macheras, Greece “Do we need to consider a reaction limited in Vivo drug dissolution model?”

17.00-18.15  Flash oral presentations

Chairs: G. Borchard

FP-1 Daniel Sironi, Denmark “Assessing the performance of an amorphous solid dispersions with the novel dissolution/permeation setup Permaloop”

FP-2 Ardita Veseli, Slovenia “Simple thermodynamic BSC solubility with 5 mg tested compound”

FP-3 Emre Sefik Caglar, Turkey “Preparation, optimization and in vitro-in vivo evaluation of voriconazole loaded topical mats of Poly(lactic acid)/Poly(ethylene succinate) blends for skin infections”
**Friday, 25 May 2018**

**Apollon Hall**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.00-09.30</td>
<td>PL-4 Leslie Benet, US “Calculating extraction ratios and predicting IVIVE. The unrecognized assumptions”</td>
<td></td>
</tr>
<tr>
<td>09.30-10.00</td>
<td>PL-5 The Douwe Breimer Lecture, Per Artursson, Sweden “Intracellular drug bioavailability: a new predictor of transport and metabolism dependent drug disposition and intracellular target engagement.”</td>
<td></td>
</tr>
<tr>
<td>10.30-12.00</td>
<td>Performance of dosage forms in the body and impact on drug absorption</td>
<td>Chairs: C. Caramella - A. Hincal</td>
</tr>
<tr>
<td>10.30-11.00</td>
<td>IL-6 Werner Weitschies, Germany “GI physiology vs. formulation technology: who is in the driving seat?”</td>
<td></td>
</tr>
<tr>
<td>11.00-11.30</td>
<td>IL-7 Konstantina Soulele, Greece “Population pharmacokinetics in inhaled drugs”</td>
<td></td>
</tr>
<tr>
<td>11.30-12.00</td>
<td>OP-3 Nasir Idkaidek, Jordan “The use of saliva instead of plasma as a surrogate for drug bioavailability and bioequivalence studies in humans”</td>
<td></td>
</tr>
<tr>
<td>11.30-12.00</td>
<td>OP-4 Hristos Glavinas, Hungary “Improved bioavailability of a novel abiroterone acetate formulation is driven by immediate transfer of the drug from amorphous nanoparticles to bile micelles followed by its rapid conversion to abiroterone in the intestine”</td>
<td></td>
</tr>
<tr>
<td>12.00-13.30</td>
<td>Lunch break</td>
<td></td>
</tr>
<tr>
<td>13.30-15.00</td>
<td>Drug absorption, dissolution and in-silico modelling – towards prediction paradise?</td>
<td>Chairs: M. Brandl - P. Augustigns</td>
</tr>
<tr>
<td>13.30-14.00</td>
<td>IL-10 Maria Vertzoni, Greece “Advances in biorelevant oral drug product performance testing”</td>
<td></td>
</tr>
<tr>
<td>14.00-14.30</td>
<td>IL-11 Christos Reppas, Greece “Drug absorption from the lower intestine?”</td>
<td></td>
</tr>
<tr>
<td>14.30-15.00</td>
<td>IL-12 Hartmund Derendorf, US “Modeling and simulation to streamline dose optimization on earth and in space”</td>
<td></td>
</tr>
<tr>
<td>15.00-15.30</td>
<td>Coffee break &amp; Poster Session-3 (EP 51 - EP 75)</td>
<td></td>
</tr>
</tbody>
</table>

---

**Thursday, 24 May 2018**

**Niki Hall**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.30-17.00</td>
<td>Nanomedicines and nanosimilars: How to assess how similar? Organized by EUFEPS Nanomedicine Network</td>
<td>Chairs: E. Bilensoy, Fabio Sonvico</td>
</tr>
<tr>
<td>15.30-16.00</td>
<td>IL-4 Gerrit Borchard, Switzerland “Bench to Mensch and back: Identifying critical quality attributes for nanomedicines”</td>
<td></td>
</tr>
<tr>
<td>16.00-16.30</td>
<td>IL-5 Rogerio Gaspar, Portugal “Regulator’s point of view for nanomedicines and nanosimilars”</td>
<td></td>
</tr>
<tr>
<td>16.30-17.00</td>
<td>OP-1 Beat Flühmann, Switzerland “What is the cost of lacking regulatory clarity for nanosimilars?”</td>
<td></td>
</tr>
<tr>
<td>16.30-17.00</td>
<td>OP-2 Stefan Mühlebach, Switzerland “Complex drugs: Challenges in selecting nanomedicines and their follow-on versions for a drug formulary”</td>
<td></td>
</tr>
<tr>
<td>18.00-20.00</td>
<td>Opening Ceremony</td>
<td>Venue: University Rectorate Building under the patronage of Rector of University of Athens</td>
</tr>
<tr>
<td>20.00-21.00</td>
<td>Welcome Reception</td>
<td>Venue: Kostis Palamas building</td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Details</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>15.30-17.00</td>
<td>Information on drug absorption in regulatory processes: nice-to-know vs. need-to-know</td>
<td>Chairs: G. Colombo - A. Kristl</td>
</tr>
<tr>
<td>15.30-16.00</td>
<td><strong>IL-16 Annette Bauer-Brandt</strong>, Denmark &quot;In Vitro performance ranking of bioavailability-enhancing oral formulations: Recent advances&quot;</td>
<td></td>
</tr>
<tr>
<td>16.00-16.30</td>
<td><strong>OP-7 Korbilinian Löhman</strong>, Denmark &quot;In situ amorphization using microwaves. A Potential way to amorphize drug within the final dosage form&quot;</td>
<td><strong>OP-8 Gaia Colomba</strong>, Italy &quot;Brain and plasma pharmacokinetics of flurbiprofen after nasal powder administration&quot;</td>
</tr>
<tr>
<td>16.30-17.00</td>
<td><strong>OP-9 Matej Novak</strong>, Czechia &quot;Development of FDM 3D printing as a formulation method for drugs with low bioavailability&quot;</td>
<td><strong>OP-10 Sven Stegemann</strong>, Austria, &quot;Medicine development for the older and clinically complex patients - closing the gaps to patient centric product design&quot;</td>
</tr>
<tr>
<td>17.00-18.30</td>
<td><strong>EUF EPS Network Pharmacogenetics Research and Implementation (EPRIN)</strong></td>
<td>Chairs: A. Alfirevic - M. Ingelman-Sundberg</td>
</tr>
<tr>
<td>17.00-17.30</td>
<td><strong>IL-20 Magnus-Ingelman Sundberg</strong>, Sweden &quot;Challenges of rare genetic variants in prediction of drug response and adverse drug reactions&quot;</td>
<td></td>
</tr>
<tr>
<td>17.30-18.00</td>
<td><strong>IL-21 Andrew Owen</strong>, UK &quot;Towards stratified medicine approaches using nanotechnology-based drug delivery systems: A focus on infectious diseases&quot;</td>
<td></td>
</tr>
<tr>
<td>18.00-18.30</td>
<td><strong>OP-11 Kate Bloch</strong>, UK &quot;Sequencing in hypersensitivity reactions&quot;</td>
<td><strong>OP-12 Paula Perez Pardo</strong>, Netherlands &quot;Effects of combined intervention with levodopa and a neurorestorative diet in a mouse model of Parkinson’s disease&quot;</td>
</tr>
</tbody>
</table>

**Friday, 25 May 2018**

*Niki Hall*  

---

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.30-12.00</td>
<td>Nanomedicines: Challenges on the road</td>
<td>Chairs: R. Gaspar - E. Szoko</td>
</tr>
<tr>
<td>10.30-11.00</td>
<td><strong>IL-8 Richard Harvey</strong>, Germany &quot;Antimicrobial nanomedicines for pulmonary delivery&quot;</td>
<td></td>
</tr>
<tr>
<td>11.00-11.30</td>
<td><strong>IL-9 Maria Blanco Prieto</strong>, Spain &quot;Nanomedicines in paediatric cancer&quot;</td>
<td></td>
</tr>
<tr>
<td>11.30-12.00</td>
<td><strong>OP-5 Bruno Sarmento</strong>, Portugal &quot;Engineered albumin variants are promising surface functional moieties to surpass the intestinal barrier for insulin-loaded nanoparticles&quot;</td>
<td><strong>OP-6 Sila Gülbag</strong>, Turkey &quot;Top down production of cyclosporine A nanosuspensions for oral delivery: formulation design and characterization&quot;</td>
</tr>
<tr>
<td>12.00-13.30</td>
<td><strong>Lunch break</strong></td>
<td></td>
</tr>
<tr>
<td>13.30-15.00</td>
<td>Manufacturing of future medicines</td>
<td>Chairs: J. Ranttanen - J. Parojoj</td>
</tr>
<tr>
<td>13.30-14.00</td>
<td><strong>IL-13 Karl-Heinz Seyfang</strong>, Germany &quot;Dosing and process control technologies to cover the wide variety of dry powder inhalers&quot;</td>
<td></td>
</tr>
<tr>
<td>14.00-14.30</td>
<td><strong>IL-14 Umay Sapakoglu</strong>, US &quot;Continuous manufacturing of biotech drugs&quot;</td>
<td></td>
</tr>
<tr>
<td>14.30-15.00</td>
<td><strong>IL-15 Sarah Barthold</strong>, Germany &quot;Drug delivery in the pediatric and geriatric patient population – Advantages of multiparticulates&quot;</td>
<td></td>
</tr>
<tr>
<td>15.00-15.30</td>
<td><strong>Coffee break &amp; Poster Session-3</strong></td>
<td></td>
</tr>
<tr>
<td>15.30-17.00</td>
<td>Nanomedicines: From lab to market</td>
<td><strong>Organized by EUFEPS Nanomedicine Network</strong></td>
</tr>
<tr>
<td>15.30 -16.00</td>
<td><strong>IL-17 Caroline Lemarchand</strong>, France &quot;CMC experience in clinical development of nanomedicine&quot;</td>
<td><strong>IL-18 Rana Sanyal</strong>, Turkey &quot;From Synthesis toward Clinical. An experience in Nanomedicine&quot;</td>
</tr>
<tr>
<td>16.00-16.30</td>
<td><strong>IL-19 Petra Salamunova</strong>, Czech Republic &quot;Research of glucan particles as potential carriers of diplacone for treatment of idiopatic inflammation diseases&quot;</td>
<td><strong>IL-20 Tugba Turan</strong>, Turkey &quot;Evaluation of the apoptotic action mechanism cholesterol targeted amphiphilic cyclodextrin nanoparticles&quot;</td>
</tr>
<tr>
<td>16.30-17.00</td>
<td><strong>OP-16 Gamze Varan</strong>, Turkey &quot;Evaluation of the apoptotic action mechanism cholesterol targeted amphiphilic cyclodextrin nanoparticles&quot;</td>
<td><strong>OP-19 Sarah Barthold</strong>, Germany &quot;Drug delivery in the pediatric and geriatric patient population – Advantages of multiparticulates&quot;</td>
</tr>
<tr>
<td>17.00-18.30</td>
<td><strong>Biotech and Biosimilars: What is the next step for the future</strong></td>
<td>Chairs: I. Yenice - A. Vulto</td>
</tr>
<tr>
<td>17.00-17.30</td>
<td><strong>IL-22 Thomas Felix</strong>, US &quot;Biosimilars: Clinical Relevance of Analytical Structure-Function Studies&quot;</td>
<td><strong>IL-23 Ulrike Konrad</strong>, Germany &quot;CMC Considerations for Biosimilar Drug Development&quot;</td>
</tr>
<tr>
<td>17.30-18.00</td>
<td><strong>IL-24 Arnold Vulto</strong>, Netherlands &quot;Clinical evaluation and interchangeability of biotech products from clinical pharmacist’s point of view&quot;</td>
<td></td>
</tr>
<tr>
<td>18.00-18.30</td>
<td><strong>Conference Dinner at Aegli Terrace under the Acropolis</strong></td>
<td></td>
</tr>
<tr>
<td>19.30</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Saturday, 26 May 2018

Apollon Hall

09.30-10.00 PL-6 Sir Munir Pirmohamed, UK, “Personalized medicine in order to optimize drug efficacy and minimize toxicity”

10.00-10.30 Coffee break & Poster Session-4 (EP 76 - EP 100)

10.30-12.00 Enhanced Drug Delivery Approaches

Chairs: S. Güngör - C. Caramella

09.30 -10.00

OP-13 Carla Caramella, Italy “Combination products: balancing innovation and technological innovation”

OP-14 Flavia Laffleur, Austria “Novel polymeric dosage form for crossing the nail barrier”

11.00 -11.30


OP-16 Seda Rençber, Turkey “Investigations On The Mucosal Hot-Melt Extruded Implants for Treatment of Vaginal Candidiasis”

11.30-12.00 OP-17 Fakhrul Ahsan, US “Multi purpose filaments of HPMC for 3D printing of medications with tailored drug release and timed absorption”

12.00-13.30 Lunch break

13.30-15.00 EUFEPS Network Systems Pharmacology

Chairs: M. Danhof

13.30-14.00 IL-30 Robert Bies, US “On the dilemma of irreproducibility: Inherent or statistical?”

14.00-14.30 IL-31 Arias Dakeoumetzidis, Greece “Order reduction of large PBPK and QSP models”

14.30-15.00 IL-32 Lars Kuepfer, Germany “Simulating cellular drug responses within a whole-body context”

15.00-15.30 Awards and Closing ceremony

- EJPS Best Paper Award 2017
- EUFEPS 2018 Best Oral Presentation & Poster Awards
- EUFEPS WIPS Awards
- EUFEPS Presidential Distinction Awards

Saturday, 26 May 2018

Niki Hall

10.30-12.00 Biotech Drugs and Biosimilars Development

Chairs: G. Borchard - U. Konrad

10.30-11.00 IL-25 Despoina Sanoudou, Greece “Genomics and Molecular Biology in drug development and assessment”

11.00-11.30 IL-26 Irem Yenice, Turkey “Development of a biosimilar monoclonal antibody drug”

11.30-12.00 IL-27 Amir Farschi, Iran “MAb development, being fast & furious”

12.00-13.30 Lunch break

13.30-15.00 New drugs in Oncology

German Pharmaceutical Society DPhG

Chairs: D. Steinhilber - M. Jadricvic Mladar Takac

13.30-14.00 IL-33 Stefan Laufer, Germany “EGFR Triple Mutant: Recent Set-Backs and New Hopes in Fighting Mutant Non-Small Cell Lung Cancer”

14.00-14.30 IL-34 Kristian Stromgaard, Denmark “Targeting syntelin and inhibition of cancer”

14.30-15.00 IL-35 Romano Silvestri, Italy “New anti-cancer agents through an interaction with tubulin”
### Saturday, 26 May 2018

**Athena Hall**

<table>
<thead>
<tr>
<th>Session Time</th>
<th>Session Title</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.30-11.00</td>
<td><strong>Nanotechnology in Health Sciences</strong>&lt;br&gt;Organized by EUFEPS Nanomedicine Network</td>
<td><strong>Chairs:</strong> D. Duchene - N. Celebi&lt;br&gt;<strong>10.30-11.00</strong>&lt;br&gt;<strong>IL-28</strong> Devrim Gözüaçık, Turkey &quot;From Cellular Stress Studies to Diagnosis of Diseases using Biochips and Nano Tools&quot;</td>
</tr>
</tbody>
</table>
| 11.00-11.30  | **OP-20** Silvia Franze, Italy "Novel approaches to prevent drug leakage from deformable liposomes"<br>**OP-21** Ayse Ercan, Turkey "Genomic and metabolomics studies on polycationic amphiphilic cyclodextrin nanoparticles on HEPG2 cell line" | **11.30-12.00**<br>**IL-29** Rogerio Gaspar, Portugal, "Nanomedicine and the challenges for integrative healthcare"
**12.00-13.30**<br>**Lunch break** |
| 13.30-14.00  | **OP-23** Angela Fabiano, Italy "Mucoadhesive nanoparticles and oral bioavailability"<br>**OP-24** Adryana Clementino, Italy "Mucoadhesion and permeation enhancing of different nanoparticles in excised nasal tissues: a comparative study" | **10.00 – 18.15**
**08.30 – 18.30**
**09.00 – 15.00**

The registration desk is located in the foyer of Apollon Hall (mezzanine level).

**Conference Material**
Badges and congress material will be provided to all registered participants by the Conference Secretariat. Badges are mandatory for admission and access to the meeting halls and exhibition, as well as all congress functions. Please wear your badge visibly at all times.

**Certificate of Attendance**
A certificate of attendance will be available at the Conference Secretariat on Saturday, 26 May 2018.

**Internet Access**
Wireless internet access is available free of charge within the Conference venue.

**Language**
The official language of the Conference is English. There will be no translation facilities available for the Conference participants.
Speakers Preview Desk
A Speakers preview desk is located at the foyer of Apollon Hall (mezzanine level)

Useful Information for Speakers
It is highly recommended that all the speakers upload their presentation files (USB or CD) at the Speaker Preview desk, at least one day and at the latest three hours before their presentation. Presentations will be distributed and projected to the meeting rooms via a central computer system. All meeting rooms are equipped with a laptop and an LCD Projector. Kindly note that the use of a personal laptop or/and any other device is not recommended, and it is upon the speaker’s responsibility. As a reminder, VHS videos, 35 mm slides, overhead projection (transparencies etc.) will not be available.

Useful Information for Chairpersons
You are kindly requested to:
• Keep the session to the time allocated
• Give short introductions on the speakers and the papers to be presented
• Keep the discussion brief and relevant
• Be in the room 10 minutes before the session begins and introduce yourselves to the speakers
• Check speakers’ names, titles and affiliations
• Start & end on time. Always grant time for floor discussion
• Hold each speaker to the allotted time.
• Facilitate discussion by asking a number of pertinent questions for each one of the papers, if necessary
• If a presenter ends early or does not attend, please use that extra time for questions and remarks from the audience, the panel, or yourselves. Please make sure that the following presentation doesn’t start earlier than scheduled.
• In floor discussion, it is recommended that you ask participants to introduce themselves, by saying their name, country and institution and repeat the questions, to be sure that they are heard by everyone in the audience.

Green Policy
In maintaining a high standard of environmental awareness and compliance, EUFEPS Annual Meeting 2018 follows a Green Policy. EUFEPS Annual Meeting is designated non-smoking. EUFEPS Annual Meeting has reduced the amount of printed material that is distributed at the Congress, but continues to print material considered essential for the effective organization or communication of the event. Although, EUFEPS Annual Meeting has a printed final program, printed material, like full abstract has been replaced by online information (uploaded on the congress website).

Liability & Insurance
The Organizers accept no liability for any personal injury, loss or damage of property or additional expenses incurred to Congress participants, either during the Congress 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.

Social Events

Welcome reception

Date: Thursday, May 24, 2018 // Time: 20.00 pm
Kostis Palamas building, 48 Akadimias str., Athens
Dress code: Smart casual
*Included in the registration fee

Gala Dinner

Date: Friday, May 25, 2018 // Time: 19:30 pm
Aegli Zappiou, Kipos Zappiou, Athens
Dress code: Smart casual
Cost: 50 €

Local Information & Facilities

Electricity
Greece uses 220V alternating current. Plugs and sockets are European standard with two round pins.

Currency
Greece is a member of the Eurozone and euro is the official currency. You can buy euros from banks, exchange offices in the city center and the airport “El. Venizelos”, while foreign exchange services are offered in many hotels.

The opening hours of banks accepting foreign currency are:
Monday-Thursday: 8.00 -14.30 & Friday: 8.00 -13.30.
Oral Presentations

**OP-01**
WHAT IS THE COST OF LACKING REGULATORY CLARITY FOR NANOSIMILARS?
Beat Flühmann¹, Gerrit Borchard²
¹Vifor Pharma Ltd, Glattbrugg, Switzerland, ²University of Geneva, Geneva, Switzerland

**OP-02**
COMPLEX DRUGS: CHALLENGES IN SELECTING NANOMEDICINES AND THEIR FOLLOW-ON VERSIONS FOR A DRUG FORMULARY
Stefan Muehlebach¹,², Jacqueline Surugue³
¹Vifor Pharma Ltd., Glattbrugg, Switzerland, ²University of Basel, Basel, Switzerland, ³Centre Hospitalier Georges Renan, Niort, France

**OP-03**
THE USE OF SALIVA INSTEAD OF PLASMA AS A SURROGATE IN DRUG BIOAVAILABILITY AND BIOEQUIVALENCE STUDIES IN HUMANS
Nasir Idkaidek¹
¹Petra University, Amman, Jordan

**OP-04**
IMPROVED BIOAVAILABILITY OF A NOVEL ABIRATURE ON ACETATE FORMULATION IS DRIVEN BY IMMEDIATE TRANSFER OF THE DRUG FROM AMORPHOUS NANOPIERCLES TO BILE MICELLES FOLLOWED BY ITS RAPID CONVERSION TO ABIRATURE IN THE INTESTINE
Hristos Glavinas¹, Tamas Solymosi¹, Reka Angi¹, Orsolya Basa-Denes¹, Tamás Jordán¹, Zsolt Övtös¹, Gabor Heltóvics²
¹Nangenex Inc., Budapest, Hungary, ²Druggability Technologies Holdings Ltd., Msida, Malta

**OP-05**
ENGINEERED ALBUMIN VARIANTS ARE PROMISING SURFACE FUNCTIONAL MOIEITIES TO SURPASS THE INTESTINAL BARRIER FOR INSULIN-LOADED NANOPARTICLES
Bruno Sarmento¹, Claudia Azevedo¹, Jeanette Nilsen², Algirdas Greys³, Stian Foss³, Jan Terje Andersen³
¹INEB - Instituto Nacional de Engenharia Biomédica, Universidade do Porto, Porto, Portugal, ²Department of Immunology, Centre for Immune Regulation (CIR), Oslo University Hospital, Oslo, Norway

**OP-06**
TOP DOWN PRODUCTION OF CYCLOSPORINE A NANOSUSPENSIONS FOR ORAL DELIVERY: FORMULATION DESIGN AND CHARACTERIZATION
B. Sila Gulbag¹, Alpıtuğ Karakuçuk¹, Basaran Mutlu Agardan¹, Nevin Celebi¹
¹Gazi University Faculty of Pharmacy Department of Pharmaceutical Technology, Ankara, Turkey

---

**Emergency Phones**

<table>
<thead>
<tr>
<th>Service</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Police</td>
<td>100</td>
</tr>
<tr>
<td>Fire Emergency</td>
<td>199</td>
</tr>
<tr>
<td>Ambulance</td>
<td>166</td>
</tr>
<tr>
<td>European Emergency Call Number</td>
<td>112</td>
</tr>
<tr>
<td>Hospitals, Pharmacies</td>
<td>14944</td>
</tr>
</tbody>
</table>

---

**Conference Secretariat**

AFEA S.A. Travel & Congress Services
39-41 Lykavittou Street 10672 Athens, Greece
Tel: +30 2103668853
Fax: +30 210364351
e-mail: info@eufepsannualmeeting2018.org
**OP-07**
**IN-SITU AMORPHIZATION USING MICROWAVES - A POTENTIAL WAY TO AMORPHIZE A DRUG WITHIN THE FINAL DOSAGE FORM**
Maria Doreth1, Magnus Edinger1, Matthias Manne Knopp2, Hugo Kerdecuff3, René Holm4, Heidi Lopez de Diego5, Petra Priemel1, Holger Grohganz2, Jukka Rantanen1, Thomas Rades1, Korbinian Löbmann4
1Department of Pharmacy, University Of Copenhagen, Copenhagen, Denmark, 2Bioneer, FARMA, University of Copenhagen, Copenhagen, Denmark, 3Danish Fundamental Metrology, Horsholm, Denmark, 4Drug Product Development, Janssen Research and Development, Johnson & Johnson, Beerse, Belgium, 5Analytical Development & Compliance, H. Lundbeck A/S, Valby, Denmark

**OP-08**
**BRAIN AND PLASMA PHARMACOKINETICS OF FLURBIPROFEN AFTER NASAL POWDER ADMINISTRATION**
Laura Tiozzo Fasiolo1,2, Evangelos Balafas1, Nikolaos Kostomitsopoulos1, Dimitrios Rekkas2, Georgia Valsami1, Gaia Colombo3
1University of Ferrara, Ferrara, Italy, 2University of Parma, Parma, Italy, 3Biomedical Research Foundation of the Academy of Athens, Athens, Greece

**OP-09**
**DEVELOPMENT OF FDM 3D PRINTING AS A FORMULATION METHOD FOR DRUGS WITH LOW BIOAVAILABILITY**
Matej Novák1, Pavel Kovacik2, Ales Zadrazíl1, Adam Wanek1, Frantisek Stepanek1
1Uct Prague, Prague, Czech Republic, 2Zentiva, a.s., Prague, Czech Republic

**OP-10**
**MEDICINE DEVELOPMENT FOR THE OLDER AND CLINICALLY COMPLEX PATIENTS – CLOSING THE GAPS TO PATIENT CENTRIC PRODUCT DESIGN**
Sven Stegemann1
1Graz University of Technology, Graz, Austria

**OP-11**
**SEQUENCING IN HYPERSENSITIVITY REACTIONS**
Katarzyna M Bloch1, Graeme Silts1, Yuan Liu1, Richard Gregory1, Baitang Ning2, Leming Shi3, Margherita Francescatto4, Cesare Furlanello5, Marco Chierici6, Munir Pirmohamed2, Ana Allfirevic7
1University of Liverpool, Liverpool, UK, 2National Center for Toxico pathological Research, Food and Drug Administration of United States of America, USA, 3Center for Pharmacogenomics, School of Life Sciences and Shanghai Cancer, Shanghai, China, 4Fondazione Bruno Kessler, Trento, Italy

**OP-12**
**EFFECTS OF COMBINED INTERVENTION WITH LEVODOPA AND A NEURORESTORATIVE DIET IN A MOUSE MODEL OF PARKINSON’S DISEASE**
Paula Perez Pardo1, Laus Broersen1, Tessa Kliest1, Nick van Wijk1, Amos Altai2, Johan Ganssen1, Aletta Kranenveld1
1DeV Pharmacology, UIPS, Faculty of Science, Utrecht University, Utrecht, Netherlands, 2Nutricia Research, Utrecht, Netherlands

**OP-13**
**COMBINATION PRODUCTS: BALANCING INNOVATION AND TECHNOLOGICAL INNOVATION**
Carla Marcella Caramella1
1University, Pavia, Italy

**OP-14**
**NOVEL POLYMERIC DOSAGE FORM FOR CROSSING THE NAIL BARRIER**
Flavia Laffleur1
1University Of Innsbruck, Innsbruck, Austria

**OP-15**
**BLOOD-BRAIN BARRIER SHUTTLE PEPTIDES: AN EMERGING TOOL FOR BRAIN DELIVERY**
Mertxell Teixido1
1Institute for Research in Biomedicine (IRB Barcelona), Barcelona Institute for Science and Technology (BIST), Baldin Reixac 10, 08028, Barcelona, Spain

**OP-16**
**EVALUATION OF THE APOPTOTIC ACTION MECHANISM OF CHOLESTEROL-TARGETED AMPHIPHILIC CYCLODEXTRIN NANOPARTICLES**
Gamze Varaj1, Selin Oncül2, Ayse Ercan3, Juan M. Benito4, Carmen Ortiz Mellif5, Erem Bilensoy1
1Department of Pharmaceutical Technology, Faculty of Pharmacy, Hacettepe University, Ankara, Turkey, 2Department of Biochemistry, Faculty of Pharmacy, Hacettepe University, Ankara, Turkey, 3Institute for Chemical Research, CSIC-University of Sevilla, Sevilla, Spain, 4Department of Organic Chemistry, Faculty of Chemistry, University of Sevilla, Sevilla, Spain

**OP-17**
**MULTI-PURPOSABLE FILAMENTS OF HPMC FOR 3D PRINTING OF MEDICATIONS WITH TAILORED DRUG RELEASE AND TIMED-ABSORPTION**
Hossam Kadry1, Taslim A Al-Hilal1, Ali Keshavarez1, Farzana Alam1, Changxue Xu2, Abraham Joy3, Fakhrul Ahsan1
1Texas Tech University Health Science Center, Amarillo, United States, 2Texas Tech University, Lubbock, United States, 3The University of Akron, Akron, United States

**OP-18**
**RESEARCH OF GLUCAN PARTICLES AS POTENTIAL CARRIERS OF DIPLOACONE FOR TREATMENT OF IDIOPATIC INFLAMMATION DISEASES**
Petra Salamunova1, Lucie Cerna2, Zuzana Plavcova2, Jaroslav Hanus1, Frantisek Stepanek1, Jan Hosek2
1UCT Prague, Prague, Czech Republic, 2VFU Brno, Brno, Czech Republic

**OP-19**
**NOVEL APPROACHES TO PREVENT DRUG LEAKAGE FROM DEFORMABLE LIPOSOMES**
Silvia Franzè1, Paola Minghetti1, Francesco Citurro1
1University of Milan, Milan, Italy
OP-21
GENOMIC AND METABOLIC STUDIES OF POLYCATIONIC AMPHIPHILIC CYCLODEXTRIN NANOPARTICLES ON HEPG2 CELL LINE
Ayse Ercan1, Mustafa Celebier2, Gamze Varan3, Selin Oncul1, Engin Kocak2, Ozan Kaplan2, Erem Bilensoy3
1Hacettepe University Faculty of Pharmacy Department of Biochemistry, Ankara, Turkey, 2Hacettepe University Faculty of Pharmacy Department of Analytical Chemistry, Ankara, Türkiye, 3Hacettepe University Faculty of Pharmacy Department of Pharmaceutical Technology, Ankara, Türkiye

OP-23
MUCOADHESIVE NANOPARTICLES AND ORAL BIOAVAILABILITY
Angela Fabiano1, Anna Maria Piras1, Ylenia Zambito1
1Università Di Pisa, Pisa, Italy

OP-24
MUCOADHESION AND PERMEATION ENHANCING OF DIFFERENT NANOPARTICLES IN EXCISED NASAL TISSUES: A COMPARATIVE STUDY
Adryana Clementino1,2, Gaia Colombo3, Laura T. Faziolo1, Elisa Botti1, Camilla Bergamini1, Fabio Sonvico1
1Food and Drug Department, University of Parma, Parma, Italy, 2Conselho Nacional do Desenvolvimento Científico e Tecnológico-CNPq, Brasilia-DF, Brazil, 3Department of Pharmacy, University of Ferrara, Ferrara, Italy

OP-25
INVESTIGATIONS ON THE MUCOADHESIVE HOT-MELT EXTRUDED IMPLANTS FOR TREATMENT OF VAGINAL CANDIDIASIS
Betül Rumeysa Temel1,2, Seda Rencber1, Duangratana Shuwisitkul3, Isik Özugüney1
1Ege University, Izmir, Turkey, 2Izmir Katip Celebi University, Izmir, Turkey, 3Srinakharinwirot University, Thailand

Flash Presentations

FP-01
ASSESSING THE PERFORMANCE OF AN AMORPHOUS SOLID DISPERSION WITH THE NOVEL DISSOLUTION/PERMEATION SETUP PERMEALOOP™
Daniel Sirion1, Jörg Rosenberg1, Martin Brandl1, Annette Bauer-Brandl1
1University Of Southern Denmark, Odense M. Denmark, 2AbbVie Deutschland, Ludwigshafen, Germany

FP-02
SIMPLE THERMODYNAMIC BSC SOLUBILITY WITH 5 mg OF TESTED COMPOUND
Ardita Veseli1
1University of Ljubljana, Faculty of Pharmacy, Ljubljana, Slovenia

FP-03
PREPARATION, OPTIMIZATION AND IN VITRO-IN VIVO EVALUATION OF VORICONAZOLE LOADED TOPICAL MATS OF POLYLACTIC ACID/POLY(ETHYLENE SUCINATE) BLENDS FOR SKIN INFECTIONS
Neslihan Ustundag Okur1, Ermine Sefik Caglar1, Mehmet Evren Okur2, Sule Ayla1, Maria Filippousi1, Panorama I Siafaka1
1Istanbul Medipol University, School of Pharmacy, Department of Pharmaceutical Technology, Istanbul, Turkey, 2Anadolu University, Faculty of Pharmacy, Department of Pharmacology, Eskisehir, Turkey, 3Istanbul Medipol University, School of Medicine, Department of Histology and Embryology, Istanbul, Turkey

FP-04
SERUM AND TISSUE PHARMACOKINETICS OF SAFFRON AQUEOUS EXTRACT AFTER I.V. AND PEROS ADMINISTRATION TO C57/BL6J MICE
Eirini Christodoulou1, Nikolaos Kadogou2, Nikolaos Kostomitsopoulos2, Georgia Valsami1
1Laboratory of Biopharmaceutics-Pharmacokinetics, Department of Pharmaceutical Technology, School of Pharmacy, National and Kapodistrian University of Athens, Athens, Greece, 2Center of Clinical Experimental Surgery and Translational Research, Biomedical Research Foundation, Academy of Athens, Athens, Greece

FP-05
IN VIVO AND IN VITRO INVESTIGATION OF N-ACYL AMINO ACID BASED SURFACTANTS AS PERMEABILITY ENHANCERS
Diego R. Perinelli1, Augusto Armici1, Daniele Tomassoni1, Paolo Blassi1, Giovanni Filippo Palmieri1
1School of Pharmacy, University of Camerino, Camerino, Italy, 2School of Biosciences and Veterinary medicine, University of Camerino, Camerino, Italy

FP-06
NOVEL ANIONIC AND CATIONIC POLYMERIC NANOCAPSULES FOR ORAL DELIVERY OF DOCETAXEL: PREPARATION, IN VITRO AND IN VIVO EVALUATION
Nazli Erdogan1, Demet Daskin2, Aiper B Iskit1, Erem Bilensoy1
1Hacettepe University, Ankara, Turkey, 2Scientific and Technological Research Council of Turkey (TUBITAK), Ankara, Turkey
E-Poster Presentations

EP01
PREPARATION AND CHARACTERIZATION OF GLIBENCALMIDE SOLID SOLUTIONS USING INJECTION MOLDING TECHNIQUE
Ahmed Hanafy1, Hany Ali2,3
1Research and development manager, Alandalous Pharmaceuticals, 6 October city, Industrial area, Egypt, 2Department of Pharmaceutics and Pharmaceutical Technology, School of Pharmacy, Tabah University, Madina, Saudi Arabia, 3Department of Pharmaceutics, Faculty of Pharmacy, Assiut University, Assiut, Egypt

EP02
MODELING OF EZETIMIBE ENTEROHEPATIC RECIRCULATION
Konstantina Soulele1, Vangelis Karalis1
1Department of Pharmacy, School of Health Sciences, National and Kapodistrian University of Athens, Athens, Greece

EP03
THE USEFULNESS OF CELL BASED-MODELS TO PREDICT DRUG ABSORPTION ALONG THE INTESTINAL TRACT
Isabel Lozoya-Aguillo2, Francisca Araujo, Isabel Gonzalez-Alvarez2, Marta Gonzalez-Alvarez2, Malitde Merino-Sanjuan3, Manuel Bermejo3, Bruno Sarmento3
2INEB - Instituto Nacional de Engenharia Biomédica, University of Porto, Porto, Portugal, 3Pharmacokinetics and Pharmaceutical Technology. Miguel Hernandez University, Spain

EP05
PREFORMULATION STUDIES OF FUROSEMIDE MODIFIED RELEASE FROM SOLID PHARMACEUTICAL FORMULATIONS
Konstantina Tragou1, Eftimia Geraniou1, Konstantina Barbakou1, Danae Kourbani1, Angeliki Siamidi1, Martina Vauchou1
1National and Kapodistrian University of Athens, School of Health Sciences, Faculty of Pharmacy, Department of Pharmaceutical Technology, Athens, Greece

EP06
HOT-MELT COATING OF PARACETAMOL GRANULES IN A MODIFIED FLUID BED SYSTEM: INFLUENCE OF PROCESS PARAMETERS ON DRUG RELEASE PROPERTIES
Ana Milanovic1, Ivana Alexic1, Sandra Cvijic1
1University Of Belgrade-Faculty Of Pharmacy, Department Of Pharmaceutical Technology And Cosmetology, Belgrade, Serbia

EP08
EFFECT OF SURFACTANT MOLECULAR STRUCTURE ON PROGESTERONE SOLUBILIZATION
Petra Dobrjeza1, Zahari Vinarov1, Slavka Tcholakova1
1Faculty Of Chemistry And Pharmacy, Sofia University, Sofia, Bulgaria

EP09
ALBENDAZOLE SOLUTION FORMULATION VIA VESICLE-TO-MICELLE TRANSITION OF PHOSPHOLIPID-SURFACTANT AGGREGATES
Vladimir Kalev1, Zahari Vinarov1, Gabriela Gancheva1, Slavka Tcholakova1
1Faculty of Chemistry and Pharmacy, Sofia University, Sofia, Bulgaria

EP10
THERMOSENSITIVE POLOXAMER-HYDROXYPROPYLMETHYLEXYLCELLULOSE HYDROGELS: PHYSICO-CHEMICAL CHARACTERIZATION AND IN VITRO RELEASE/DISOLUTION PROFILES
Nailly Cardoso de Faria1, Samyr Machado Querobino1, Eneida de Paula1, Daniele Ribeiro De Araujo1
1Federal University of ABC, Santo Andre, Brazil, 2State University of Campinas, Campinas, Brazil

EP11
FORMATION OF MICRONIZED ACTIVE PHARMACEUTICAL INGREDIENT PARTICLES USING THE SUPERCRITICAL ANTI-SOLVENT TECHNOLOGY
Yan-Ping Chen1, Muoi Tang2, Sheau-Ling Ho2
1Dept. of Chemical Engineering, National Taiwan University, Taipei, Taiwan, 2Chinese Culture University, Taipei, Taiwan

EP12
PREPARATION OF PIRACETAM-SALICYLIC ACID CO-CRYSTAL USING THE SUPERCRITICAL ANTI-SOLVENT TECHNOLOGY
Yan-Ping Chen1, Muoi Tang2, Sheau-Ling Ho2
1Dept. Of Chemical Engineering, National Taiwan University, Taipei, Taiwan, 2Chinese Culture University, Taipei, Taiwan

EP13
DRUG RELEASING COLLAGEN/CHITOSAN COMPOSITE SCAFFOLDS FOR WOUND HEALING
Gizem Karaca1, Gökçen Yasayan1
1Sanovel Pharmaceuticals, Istanbul, Turkey

EP14
BILE ACID SEQUESTRANTS FOR ORAL DELIVERY AND IN-VITRO TESTING
Gülçin TOK1
1Sanovel Pharmaceuticals, Istanbul, Turkey

EP15
EMPLOYING NANOTECHNOLOGIES FOR THE MUCOSAL DELIVERY OF CARBOHYDRATE ANTIGENS
Maruchi Prasanna1,2, Emilie Camberlein1, Cyrille Grandjean1, Marcos Garcia-Fuentes1, Noemi Csaba1
1CIMUS, University Of Santiago De Compostela, Santiago De Compostela, Spain, 2Unit Function & Protein Engineering, UMR CNRS 6286, University of Nantes, Nantes, France

EP16
COMPLEX ACTIVE SUBSTANCES BEYOND BIOLOGICAL PRODUCTS
Paolo Roccio1, Umberto Maria Musazzi1, Silvia Franzè1, Paola Minghetti1
1University of Milan, Milano, Italy

EP17
FORMULATION OF HERBAL ANTIBACTERIAL MOUTHWASHES
Enkeleida Goci1, Entela Haloci2, Jona Berberi3
1Aldent University, Tirana, Albania, 2University of Medicine, Tirana, Tirana, Albania, 3Aldent University, Tirana, Albania

EP18
PREPARATION AND INVESTIGATION OF LORATADINE NANOSUSPENSION STABILIZED BY SOLUPLUS® TO IMPROVE PHYSICO-CHEMICAL PROPERTIES
Areen Alshweiat1, Rita Ambrus1, Gabor Katona1, lidiko Csoka1
1Institute of Pharmaceutical Technology and Regulatory Affairs -University of Szeged, Szeged, Hungary
EP19
DEVELOPMENT AND EVALUATION OF A TRIPLE ANTIFUNGAL MICELLAR-BASED FORMULATION FOR TOPICAL TREATMENT OF SUPERFICIAL FUNGAL INFECTIONS
Si Gou1, Michel Monod2, Denis Salomon3, Yogeshwar N. Kalia1
1School of Pharmaceutical Sciences, University of Geneva & University of Lausanne, Geneva, Switzerland, 2Service of Dermatology, Laboratory of Mycology, Centre Hospitalier Universitaire Vaudois, Lausanne, Switzerland, 3Clinique Internationale de Dermatologie Geneve SA, Geneva, Switzerland

EP20
IN VITRO/IN VIVO EVALUATION OF FOLATE RECEPTOR TARGETED LIPOSOMES AND NANOCOCHELATES CONTAINING IMATINIB-DEXKETOPROFEN FOR THE TREATMENT OF FIBROSARCOMA
Özlem Coban1, Zelihağul Dегım1, Sükrәn YILMAZ1, Levent Altintas2, Taibe ARSOY2, Mahmud SOZMEN3
1Karadeniz Technical University, Faculty of Pharmacy, Trabzon, Turkey, 2Biruni University, Faculty of Pharmacy, Istanbul, Turkey, 3Food and Mouth Diseases Institute, Ankara, Turkey. – 4Ankara University, Faculty of Veterinary Medicine, Ankara, Turkey, 5Onatokuz Mayis University, Faculty of Veterinary Medicine, Samsun, Turkey

EP21
MALTODEXTRINS AS NOVEL AUXILIARY AGENT IN SPRAY-DRYING AND FREEZE-DRYING OF PLGA NANOPARTICLES
Gaula Magri1, Francesca Selmin1, Umberto Musazzi1, Paola Minghetti1, Francesco Cilurzo1
1University Of Milan, Milan, Italy

EP22
2D PRINTED FILMS FOR BUCCAL DELIVERY OF DICLOFENAC SODIUM
Georgios Eleftheriadis1, Paraskevi Kynaki Monou1, Nikolaos Bouropoulos2, Dimitrios Fatouros1
1Laboratory of Pharmaceutical Technology, School of Pharmacy, Aristotle University of Thessaloniki, Thessaloniki, Greece, 2Department of Materials Science, University of Patras, Patras, Greece

EP23
FUNCTIONAL CHARACTERIZATION OF BIOSIMILAR FILGRASTIM BY SURFACE PLASMON RESONANCE SPECTROSCOPY AND CELL-BASED ASSAY
Turayak Karac1, Zeynep Bor Tekdemir1, Suzan Yazar Cekil1, Fatma Goksin Bahar1, Emine Yilmaz2, Irem Yenice2, 1Arven R&D Center, Istanbul, Turkey, 2Arven Biotechnology Dept., Kirklareli, Turkey

EP24
NITRIC OXIDE SYNTHESIS PROMOTED BY L-ARGININE PREVENTS INTESTINAL EPITHELIAL CELL INJURY UNDER HEAT STRESS CONDITIONS
Aletta Kraneveld1,2, Soheil Varasteh1, Saskia Braber1, Johan Garssen1,3, Johanna Fink-Gremmels1
1Division of Pharmacology, Utrecht Institute for Pharmaceutical Sciences, Faculty of Science, Utrecht University, Utrecht, Netherlands, 2Veterinary Pharmacology & Therapeutics group, Institute for Risk Assessment Sciences (IRAS), Faculty of Veterinary Medicine, Utrecht University, Utrecht, Netherlands, 3Nutricia Research, Utrecht, Netherlands

EP25
OPEN FLOW MICROPERFUSION INVESTIGATES SKIN EXPOSURE OF NANOBIOCERAMICS IN THE H2020 PROJECT BIORIMA – BIOMATERIAL RISK MANAGEMENT
Susanne Resch1, Joanna Adamczak2, Christa Schimpel1, Frank Sinner2, Andreas Falk1, Thomas Birngruber2
1BioNanoNet Forschungsgesellschaft mbH, Graz, Austria, 2Joanneum Research Forschungsgesellschaft mbH Health – Institute for Biomedicine and Health Sciences, Graz, Austria

EP26
SAFE-BY-DESIGN NANOCARRIER DEVELOPMENT – OPEN FLOW MICROPERFUSION TO INVESTIGATE BLOOD-BRAIN BARRIER CROSSING
Christa Schimpel1, Susanne Resch1, Thomas Altendorfer-Kroath2, Nora Ventosa3, Andreas Falk1, Frank Sinner2, Thomas Birngruber2
1BioNanoNet Forschungsgesellschaft mbH, Graz, Austria, 2Joanneum Research Forschungsgesellschaft mbH Health – Institute For Biomedicine And Health Sciences, Graz, Austria, 3Instituto De Ciencia De Materiales De Barcelona (csic)-Ciber-Dbn, Barcelona, Spain

EP27
NANOSTRUCTURED LIPID-POLOXAMER ORGANOGELS AS SKIN-DELIVERY SYSTEMS: RHEOLOGICAL AND IN VITRO PERMEATION STUDIES
Anyane Alves Vigato1, Naailly Cardoso de Faria1, Eneida de Paula1, Danielle Ribeiro De Araujo1
1Federal University of ABC, Santo André, Brazil, 2State University of Campinas, Campinas, Brazil

EP28
FORMULATION OF BIOCOMPATIBLE COLLOIDAL NANODISPERSION AS APPROPRIATE VEHICLE FOR ENZYME DRUG DELIVERY: THE MODEL CASE OF HORSERADISH PEROXIDASE (HRP)
Haralambos Stamatias1, Evgenia Mitsou1, Aristotelis Xenakis1, Maria Zoumpaniti1
1Institute of Biology Medicinal Chemistry & Biotechnology, National Hellenic Research Foundation, Athens, Greece, Athens, Greece, 2Laboratory of Biotechnology, Department of Biological Applications and Technologies, University of Ioannina, Ioannina, Greece, Ioannina, Greece, 3Laboratory of Biotechnology, Department of Biological Applications and Technologies, University of Ioannina, Ioannina, Greece

EP29
DEVELOPMENT AND BIOLOGICAL APPLICATIONS OF NON-IONIC MICROEMULSIONS FOR THE DELIVERY OF NOVEL CYTOTOXIC COMPOUNDS
Ioanna Theochani1, Vassiliki Papadimitriou1, Demetris Papahatzis1, Nikolaos Assimomytis1, Efi Pappou1, Harris Pratissini1, Aristotelis Xenakis1, Vassiliki Plets1
1Institute of Biology, Medicinal Chemistry & Biotechnology, National Hellenic Research Foundation, Athens, Greece, 2Institute of Biosciences and Applications, National Centre of Scientific Research “Demokritos”, Athens, Greece

EP30
OPTIMIZATION OF THE FORMULATION (W/O EMULSION) DESIGNED FOR PHARMACEUTICAL SPRAY-DRYING PROCESS
Ana Juric Simcic1, Iva Reljic2, Iva Erak1, Maja Lusina Kregar1, Bisera Celina Cizmek1, Anita Hafner1, Jelena Filipovic-Grocic1
1Pliva Croatia Ltd., Prilaz baruna Filipovica 25, Zagreb, Croatia, 2University of Zagreb Faculty of Pharmacy and Biochemistry, Zagreb, Croatia

EP31
AZELAIC ACID NANOCRYSTALS: PREPARATION AND CHARACTERIZATION
Ivona Tomic1, Iva Reljic2, Sabina Keser1, Ivan Pepic2, Jelena Filipovic-Grocic1
1University of Mostar Faculty of Pharmacy, Mostar, Bosnia and Herzegovina, 2University of Zagreb Faculty of Pharmacy and Biochemistry, Zagreb, Croatia

EP32
PREPARATION, CHARACTERIZATION AND ORAL ACUTE TOXICITY OF LEVOFLOXIN LOADED NANOCARRIERS AS ORAL DRUG DELIVERY SYSTEMS
Panorama I. Siafaka1, Mehmet Eren Oktar1, Sule Ayla2, Emre Sefik Caglar1, Nesilhan Uluindago Oktar1
1Istanbul Medipol University, School of Pharmacy, Department of Pharmaceutical Technology, Istanbul, Turkey, 2Anadolu University, Faculty of Pharmacy, Department of Pharmacology, Eskisehir, Turkey, 3Istanbul Medipol University, School of Medicine, Department of Histology and Embryology, Istanbul, Turkey
EP47
IMPROVEMENT OF GABAPENTIN’S STABILITY BY USING DIFFERENT EXCIPIENTS AND VARYING THE AMBIENT CONDITION
Yasmin Ranjous1, Tamas Sovany1, Géza Regdon, Jamila Hassian2
1University of Szeged, Szeged, Hungary, 2University of Damascus, Damascus, Syria

EP48
PREPARATION AND CLINICAL EVALUATION OF MINERAL WATER BASED COSMETIC FORMULATIONS WITH OLIVE FLOWER EXTRACT
Ogren Ozgen1, Evren Homan Goğc̣e1, Serra Gürçan2, Fatih Karabey1
1Ege University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Izmir, Turkey

EP49
PHYSICOCHEMICAL ANALYSIS IN THE FORMULATION DEVELOPMENT OF BAICALIN CONTAINING SELF-NANGEMULSIFYING DRUG DELIVERY SYSTEM
Geza Jakab1, Viktor Fülöp1, Tamas Bozó1, Emese Balogh1, Istvan Antal1
1Semmelweis University, Budapest, Hungary

EP51
EVALUATION OF SOLUBILITY AND DERMAL PERMEATION OF FLURBIPROFEN NANOSUSPENSION
Ayse Nur Oktay1, Aliptuk Karakuçuk1, Sibel Ilbasmis-Tamer1, Nevin Celebi1
1Gazi University Faculty of Pharmacy - Department of Pharmaceutical Technology, Ankara, Turkey

EP52
DENDRON-BASED MICELLES FOR DERMAL DELIVERY AND FOLLICULAR TARGETING
Beyza Betül Gökçe1, Filiz Çalış1, Rana Sanyal2, Richard H. Guy3, Sevai Güngör2
1İstanbul University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Istanbul 34116, Turkey, 2Anadolu University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Eskisehir, Turkey, 3Cukurova University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Adana, Turkey

EP53
INVESTIGATION OF ANTI-INFLAMMATORY EFFECT OF SOUR CHERRY ANTHOCYANINS ON CACO-2 INFLAMMATORY MODEL
Thi Le Phuong Nguyen1, Ferenc Fenyves1, Judit Remenyik1, Judit Homoki1, Ildiko Bacskay2, Palma Fehér1, Zoltan Ujhelyi1, Gabor Vasvari1, Miklos Vecseryves1, Judit Varadi1
1Department of Pharmaceutical Technology University of Debrecen, Debrecen, Magyarorszag, 2Department of Food Technology University of Debrecen, Debrecen, Magyarorszag

EP54
KETOPROFEN LYSINE LOADED POLY-LACTIC-CO-GLYCOLIC ACID (PLGA) NANOPARTICLES BY DOUBLE EMULSION SOLVENT EVAPORATION METHOD
Akin Elmaskaya1, A. Alper Öztürk1, Evrim Yenilmez2
1Anadolu University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Eskisehir, Turkey, 2Ege University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Izmir, Turkey

EP55
FRACTAL OR FRACTIONAL KINETICS IN DRUG RELEASE STUDIES: A COMPARATIVE STUDY OF THE WEIBULL AND MITTAG-LEFFLER FUNCTIONS
Kosmas Kosmidis1, Panos Macheras2
1Aristotle University of Thessaloniki, Thessaloniki, Greece, 2University of Athens, Athens, Greece

EP56
FLURBIPROFEN LOADED EUDRAGIT® RSPO AND EUDRAGIT® RLPO NANOPARTICLES FOR EXTENDED ANALGESIC ACTIVITY
A. Alper Öztürk1, Umay Merve Güven2, Evrim Yenilmez1, Behiye Senel1
1Anadolu University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Eskisehir, Turkey, 2Cukurova University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Adana, Turkey

EP57
DEVELOPMENT AND EVALUATION OF A NOVEL POST-BIOTIC ENTERIC FORMULATION IN A MOUSE MODEL OF METABOLIC SYNDROME
Matteo Puccetti1, Monica Borghi2, Luigina Romani2, Maurizio Ricci1, Marilena Parian2, Stefano Giovagnoli1
1Dpt. of Pharmaceutical Sciences, University of Perugia, Perugia, Italy, 2Dpt. of Experimental Medicine, University of Perugia, Perugia, Italy

EP58
FLURBIPROFEN LOADED GEL FORMULATION AND CHARACTERIZATION WITH NEW DEVELOPED UPLC METHOD
A. Alper Öztürk1, Umay Merve Güven2, Evrim Yenilmez1
1Anadolu University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Eskisehir, Turkey, 2Cukurova University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Adana, Turkey

EP59
MULTI-DRUG DELIVERY SYSTEM BLENDS AS A POTENTIAL STRATEGY TO IMPROVE QUALITY OF DRY POWDERS FOR INHALED THERAPIES
Siyahin Xiroudaki1, Matteo Puccetti1, Maurizio Ricci2, Dimitrios M. Rekkas2, Stefano Giovagnoli1
1Dpt. of Pharmaceutical Sciences, University of Perugia, Perugia, Italy, 2Dpt. of Pharmaceutical Technology, Faculty of Pharmacy, National & Kapodistrian University of Athens, Greece, Athens, Greece

EP60
BIOACTIVE POLYURETHANE ELASTOMERS FOR BONE TISSUE ENGINEERING
Ede Ayse Aksay1,2, Betul Suyumbike Yagci1
1Hacettepe University, Faculty of Pharmacy, Department of Basic Pharmaceutical Sciences, Ankara, Turkey, 2Hacettepe University, Institute of Science, Polymer Science and Technology Division, Ankara, Turkey

EP61
SINGLE- AND MULTIPLE-DOSE TOLERABILITY, PHARMACOKINETICS, AND PHARMACODYNAMICS OF ACT-774312: A NOVEL CRTH2 ANTAGONIST
Martina Gehin1, Milena Issac1, Hervé Farine2, Daniel Strasser2, Patricia Sidharta1, Jasper Dingermans1
1Clinical Pharmacology, Idorsia Pharmaceuticals Ltd, Allschwil, Switzerland, 2Translational Science Biology, Idorsia Pharmaceuticals Ltd, Allschwil, Switzerland

EP62
DEVELOPMENT OF SOLID LIPID NANOPARTICLES CONTAINING RIBOFLAVIN BY FACTORIAL DESIGN
Eren Aytekin1, Sibel Bozdag Pehlivan1, Sema Calis1
1Hacettepe University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Ankara, Turkey
**EP63**  
HISTOLOGICAL AND IMMUNOHISTOCHEMICAL EVALUATION OF NANOFIBER WOUND DRESSING IN ACUTE WOUND HEALING  
Serdar Tort¹, Fatma Nur Tugcu Demiroz², Sanem Saribas², Candan Ozogul¹, Fusun Acartürk¹  
¹Gazi University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Ankara, Turkey, ²Ahı Evren University, Faculty of Medicine, Department of Histology and Embryology, Kirsehir, Turkey, ³Gazi University, Faculty of Medicine, Department of Histology and Embryology, Ankara, Turkey

**EP64**  
PHARMACOKINETIC PROPERTIES OF FLUORESCENTLY AND PET RADIOTRACER LABELLED HYDROXYPROPYL-BETA-CYCLODEXTRIN  
Ferenc Fenyvesi¹, Anca Hermenean², Istvan Hajdu², György Trecsényi³, Judit Varadi², Ildiko Bacskay¹, Palma Fehér¹, Zoltan Ujhelyi¹, Gabor Vasvari¹, Eva Fenyvesy¹, Milo Malanga², Lajos Szente², Miklos Vecsernyés¹  
¹Department of Pharmaceutical Technology, University of Debrecen, Debrecen, Hungary, ²Vasile Goldis Western University of Arad, Arad, Romania, ³Department of Medical Imaging, University of Debrecen, Debrecen, Hungary

**EP65**  
TRANSLATION PHARMACY IN DIABETES CARE: HUMAN ASPECTS BASED PRODUCT AND CARE DESIGN ON QBD BASIS  
Helga Fekelei¹, Edina Pallagi¹, Ildiko Csoka¹  
¹University of Szeged Faculty of Pharmacy, Szeged, Hungary

**EP66**  
DEVELOPMENT AND EVALUATION OF SILICA NANOPARTICLES USING A QUALITY BY DESIGN APPROACH  
Hayrettin Tombul¹,², Sedenay Akbas¹, Gozde Uttay¹, Adem Sahin¹, Yeşim Akbas², Yılmaz Çapan³, İsmail Alparslan⁴  
¹Inonu University Faculty of Pharmacy Department of Pharmaceutical Technology, Malatya, Turkey, ²Hacettepe University Faculty of Pharmacy Department of Pharmaceutical Technology, Ankara, Turkey, ³Hacettepe University Faculty of Pharmacy Department of Pharmaceutical Technology, Kayseri, Turkey, ⁴ILKO Pharmaceuticals, Ankara, Turkey

**EP67**  
FORMULATION, OPTIMIZATION AND CHARACTERIZATION OF PLGA NANOPARTICLES BY EXPERIMENTAL DESIGN  
Ayşe Ercan¹, Ceren Duranoglu¹, Samiye Yabanoglu-Ciftçi², Betül Arica²  
¹Department of Pharmaceutical Technology, Faculty of Pharmacy, Hacettepe University, Ankara, Turkey, ²Department of Biochemistry, Faculty of Pharmacy, Hacettepe University, Ankara, Turkey

**EP68**  
TGF-ß3 LOADED PLGA-b-PEG NANOPARTICLES: PREPARATION AND CHARACTERIZATION  
İpek Baysal¹, Acelya Enrikçi², Betül Arica², Gulberk Ucar¹, Samiye Yabanoglu-Ciftçi²  
¹Hacettepe University, Faculty of Pharmacy, Department of Biochemistry, Ankara, Turkey, Ankara, Turkey, ²Hacettepe University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Ankara, Turkey

**EP69**  
ANTIFIBROTIC EFFECT OF TGF-ß3 LOADED PLGA-b-PEG NANOPARTICLES ON HUMAN CARDIAC FIBROBLAST CELL LINE  
Aceliya Enrikçi², İpek Baysal¹, Betül Arica², Gulberk Ucar¹, Samiye Yabanoglu-Ciftçi²  
¹Hacettepe University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Ankara, Turkey, Ankara, Turkey, ²Hacettepe University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Ankara, Turkey

**EP71**  
FECAL MATERIAL FOR EVALUATING AGE RELATED DIFFERENCES IN BACTERIAL DEGRADATION OF DRUGS IN THE LOWER INTESTINE? AN EXPLORATORY STUDY WITH OLSALAZINE  
Sarah Sulaiman¹, Giannis Romanos¹, Evgenia Gkolfi¹, Konstantinos Gourmas², Maria Koursari², Elisabeth Kersten³, Uwe Muenster³, Christos Reppas¹, Maria Vértzikó³  
¹Department of Pharmacy, School of Health Sciences, National and Kapodistrian University of Athens, Athens, Greece, ²Department of Gastroenterology, Red Cross Hospital, Athens, Greece, ³Bayer AG, Pharmaceuticals, Chemical and Pharmaceutical Development, Wuppertal, Germany

**EP72**  
THE 3D-FDM PRINTABILITY ASSESSMENT IN TERMS OF PHARMACEUTICAL POLYMERS / POLYMERIC BLENDS. CASE STUDY. ALTERNATIVE CARVEDILOL CR TABLETS  
Kinga Ilves¹, Norbert Krisztian Kovacs², Atilla Baloghi², Eniko Borbas², György Marosi², Ioan Tornuta³, ZsomborKristol Nagy³  
¹Department of Pharmaceutical Technology and Biopharmacy, Faculty of Pharmacy, University of Medicine and Pharmacy Jiljul Hatieganu, Cluj-Napoca, Romania, ²Department of Polymer Engineering, Faculty of Mechanical Engineering, Budapest University of Technology and Economics, Budapest, Hungary, ³Department of Organic Chemistry and Technology, Faculty of Chemical Technology and Biotechnology, Budapest University of Technology and Economics, Budapest, Hungary

**EP73**  
PROPOLIS LOADED LIPOSOMAL GEL FORMULATIONS  
Aysegül Aylin Aytekin¹, Sakine Tuncay Tanriverdi¹, Ozgen Ozer¹  
¹Ege University, Izmir, Turkey

**EP74**  
METABOLIC PATHWAY ANALYSIS TO INVESTIGATE THE EFFECTS OF POLYCATIONIC AMPHIPHILIC CYCLODEXTRIN NANOPARTICLES ON MCF-7 CELLS  
Ayse Ercan¹, Mustafa Celebber¹, Gamze Varan¹, Selin Oncul¹, Ozan Kaplan², Engin Kocak², Ertem Bilensoy²  
¹Hacettepe University Faculty of Pharmacy Department of Pharmaceutical Technology, Ankara, Turkey, ²Hacettepe University Faculty of Pharmacy Department of Analytical Chemistry, ³Hacettepe University Faculty of Pharmacy Department of Pharmaceutical Technology.

**EP75**  
INVESTIGATION ON SOLUBILITY AND PERMEABILITY BEHAVIOUR OF MEBEVERINE HYDROCHLORIDE  
Fatma Ak yol¹, Gulen Melike Demirbolat¹  
¹Cumhuriyet University, Sivas, Turkey

**EP76**  
PRODUCTION OF A NEW EXCIPIENT FOR DRY POWDERS FOR INHALATION. THE CASE OF D-LEUCINE  
Diego Romano Perinelli¹,², Antimo Gioiello¹, Antonio Macchiarulo¹, Maurizio Ricci¹, Aurelie Schoubben¹  
¹Department of Pharmaceutical Sciences, University of Perugia, Via Del Liceo 1 - 06123 Perugia, Italy, ²School of Pharmacy, University of Camerino, via Gentile III da Varano - 62032 Camerino, Italy

**EP77**  
3D PRINTED TOOLS FOR EXTRUDABILITY TESTING OF SEMI-SOLID FORMULATIONS  
Gulsen Aybar¹, Erkan Azizoglu¹, Ozgen Ozer¹  
¹Ege University, Izmir, Turkey
EP78
ELECTROSPINNING OF PCL AND COLLAGEN NANOFIBERS LOADED WITH POLYPHENOLS FOR WOUND HEALING
Dalila Miele1, Mana Cristina Bonferoni1, Silvia Rossi1, Giuseppina Sandri1, Elena Cavaliere1, Barbara Vigani1, Angela Faccendini1, Franco Ferrari1
1Department of Drug Sciences - University of Pavia, Pavia (PV), Italy

EP79
ELECTROSPUN ALGINATE-PEO FIBERS FOR THE DELIVERY OF SIGMA-1 RECEPTOR AGONISTS IN THE TREATMENT OF SCI. INFLUENCE OF PEO MOLECULAR WEIGHT ON FIBER PRODUCTION
Barbara Vigani1, Silvia Rossi1, Maria Cristina Bonferoni1, Giuseppina Sandri1, Giovanna Bruni1, Marta Rui1, Simona Collina1, Angela Faccendini1, Franco Ferrari1
1Department of Drug Sciences, University of Pavia, Pavia, Italy

EP80
PREPARATION AND EVALUATION OF PHYTOSOME OF BERBERINE
Aysegül Karatas1, Volkan Erdem1, Ayça Güngör2
1Ankara University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Ankara, Turkey, 2Bülent Ecevit University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Zonguldak, Turkey

EP81
IN VITRO ANTIFUNGAL ACTIVITY OF NAFTIFINE LOADED PVA/SA NANOFIBERS
Imren Esentürk1, Sibel Doğanlı1, Sevgi Güngör1, M. Sedat Erdal1
1Istanbul University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Istanbul, Turkey, 2Istanbul University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Istanbul, Turkey

EP82
SIMVASTATIN-LOADED LECITHIN/HYALURONATE NANOCAPSULES: DEVELOPMENT AND OPTIMIZATION OF NOVEL STATINS NANOCARRIER
Camilla Bergamini1, Adriana Clementino2, Elisa Botti1, Fabio Sonvico1
1Food and Drug Department, University Of Parma, Parma, Italy, 2Conselho Nacional do Desenvolvimento Científico e Tecnológico-CNPq, Brasilia-DF, Brazil

EP83
MUPIROCIN LOADED FORMULATIONS: PREPARATION, CHARACTERIZATION, ANTIMICROBIAL AND IN VITRO RELEASE STUDIES
Nesrin Hökenek1, Neslihan Ustündag Okur1, Aysegül Yoltas2
1Istanbul Medipol University, Istanbul, Turkey, 2Ege University, Izmir, Turkey

EP84
IN SILICO TOXICITY EVALUATION OF HYDROXAMIC ACID-BASED HISTONE DEACETYLASE INHIBITORS
Milena Jadrijevic-Madar Takač1, Sandra Morić1, Tin Takač2
1Faculty of Pharmacy and Biochemistry, University of Zagreb, Zagreb, Croatia, 2Faculty of Chemical Engineering and Technology, University of Zagreb, Zagreb, Croatia

EP85
EXPLORING A REACTION LIMITED DISSOLUTION MODEL FOR DRUG ABSORPTION AND ITS IMPLICATIONS IN THE BIOPHARMACEUTICAL CLASSIFICATION OF DRUGS
Panos Macheras1, Athanasios Ilia2, Georgia Melagkri1, Antreas Afantitis1
1Laboratory of Biopharmaceutics–Pharmacokinetics, Department of Pharmacy, School of Health Sciences, National and Kapodistrian University of Athens, Athens, Greece, 2Aix Marseille University, SMART-CNRS UMR C002 UMR_5911, Marseille, France, 3Division of Physical Sciences and Applications, Hellenic Military Academy, Van, Greece, 4NovaMechanics Ltd, Nicosia, Cyprus

EP86
DEVELOPMENT OF VISCOELASTIC AND BIOCOMPATIBLE POLYMERIC NANOPARTICLES INTENDED FOR PULMONARY DRUG DELIVERY
Zsofia Edit Papp1, Dora Farkas1, Viktor Fülop1, Annamaria Kosa1, Pal Vagi1, Béla Bödő2, Isvan Antal1
1Semmelweis University, Department of Pharmaceutics, Budapest, Hungary, 2Eötvös Lorand University, Faculty of Sciences, Department of Plant Anatomy, Budapest, Hungary

EP87
PREPARATION AND EVALUATION OF ORAL NANOVEHICLES FOR ALZHEIMER’S DISEASE TREATMENT
Ecehan Onay1, Neslihan Ustündag Okur1, Evren Homan Gokce2
1Istanbul Medipol University, Istanbul, Turkey, 2Ege University, Izmir, Turkey

EP88
THE DEVELOPMENT OF SNEDDS CONTAINING BOSENTAN USING LONG CHAIN MONO AND DIGLYCERIDE MIXTURES
Duygu Yilmaz Usta1, Zeynep Safak Teksin1
1Gazi University, Faculty of Pharmacy, Ankara, Turkey

EP89
THE GASTROINTESTINAL LIPOLYSIS MODEL FOR SELF-NANOEMULSIFYING DRUG DELIVERY SYSTEM OF TENOFOVIR
Derya Bektas1, Fatmanur Tugcu Demiroz2, Zeynep Safak Teksin1
1Gazi University, Faculty of Pharmacy, Ankara, Turkey

EP90
VITAMIN-D SUPPLEMENTATION AMONG ELDERLY PEOPLE: THE CONCERNS OF ADHERENCE
Miklos Vecsernyes Dr1, Sarah Mirani1, Tamas Csaszar1, Bela E. Toth1
1University Of Debrecen, Debrecen, Hungary

EP91
ENHANCEMENT OF ORAL BIOAVAILABILITY OF POORLY WATER SOLUBLE DRUG TAMOXIFEN THROUGH COMPLEXATION WITH DIFFERENT CYCLODEXTRINS
Nazli Erdogan1, Emirhan Nermullu1, Alper B Isik1, Zeynep Safak Teksin1, Erem Bilensoy1
1Hacettepe University, Ankara, Turkey, 2Gazi University, Ankara, Turkey

EP92
EXPLORING FOOD-DRUG INTERACTIONS: THE SOLUBILITY OF ZIPRASIDONE-HCL IN BIORELEVANT MEDIA
Mirko Koziolek1, Christopher Porter2
1Center of Drug Absorption and Transport, University of Greifswald, Greifswald, Germany, 2Monash Institute of Pharmaceutical Sciences, Monash University, Parkville, Australia
EP93
FABRICATION OF A 3D-PRINTED PRESSURE SENSITIVE DRUG DELIVERY SYSTEM
Julius Krause1, Malte Bogdahn1, Prof. Dr. Werner Weitschies1
1University Of Greifswald, Germany

EP94
SELF-NANOEMULSIFYING DRUG DELIVERY SYSTEM OF EXENDIN-4: DEVELOPMENT, CHARACTERIZATION AND ASSESSMENT OF CYTOTOXICITY ON CACO-2 CELL LINE
Merve Celik Tekeli1,2, Yesim Aktaş1, Cigdem Yucel1, Nevin Celebi1
1Erciyes University Faculty Of Pharmacy, Department of Pharmaceutical Technology, Kayseri, Turkey, 2Gazi University Faculty of Pharmacy, Department of Pharmaceutical Technology, Turkey

EP95
IN VITRO EVALUATION OF PACLITAXEL LOADED MESOPOROUS SILICA NANOPARTICLES
Hayrettin Tonbul1,2, Sedenay Akbas2, Gozde Ullav3, Adem Sahin1, Yesim Aktaş1, Yilmaz Capan1,2
1Inonu University Faculty of Pharmacy Department of Pharmaceutical Technology, Malatya, Turkey, 2Hacettepe University Department of Nanotechnology and Nanomedicine, Ankara, Turkey, 3Hacettepe University Department of Pharmaceutical Technology, Ankara, Turkey

EP96
INVESTIGATION OF MICROEMULSIONS AND GEL-LIKE MICROEMULSIONS FOR CYCLOSPORINE SKIN DELIVERY
Marta Benigni1, Silvia Pescina1, Maria Aurora Grimau2, Cristina Padula1, Patrizia Santì1, Sara Nicoti1
1Food and Drug Department, University of Parma, Parma, Italy

EP97
EFFECT OF PEG MOLECULAR WEIGHT ON DEVELOPMENT AND CHARACTERISATION OF HOT MELT EXTRUDED VAGINAL IMPLANTS
Betül Rumeysa Temel1,2, Sedat Renger1, Duangratana Shuwisitkul2, Isik Özgün2
1Ege University, Izmir, Turkey, 2Izmir Katip Celebi University, Izmir, Turkey

EP99
CLAY MINERALS INCORPORATED IN CHONDROITIN SULPHATE BASED NANOFIBERS FOR TISSUE REGENERATION
Angela Facchendini1, Giuseppina Sandri1, Carola Aguzzì1, Silvia Rossi1, Maria Cristina Bonferroni1, Dalila Miele1, Barbara Viganò1, Cesare Viseras2, Franca Ferrari1
1Department of Drug Sciences, University of Pavia, V.le Taramelli 12, 27100, Italy, 2Department of Pharmacy and Pharmaceutical Technology, School of Pharmacy,University of Granada , Campus de Cartuja s/n, 18071, Spain, 3Andalusian Institute of Earth Sciences, CSIC-University of Granada, Avda. de Las Palmeras 4, 18100, Armilla, Spain

EP100
OCCURRENCE OF PICKERING FOAM IN PHARMACEUTICAL NANO-MILLING
Robert Lehocky1, Daniel Pecel1, Frantisek Stepanek1
1UCT Prague, Prague, Czech Republic, 2Zentiva k.s., Prague, Czech Republic

Speakers List

Plenary Speakers

Stefan Knapp
Prof. Dr., Goethe University Frankfurt, Germany

Mansoor Khan
Professor, University of Texas A&M, USA

Jukka Rantanen
Professor, University of Copenhagen, Denmark

Leslie Benet
Professor, University of California, USA

Per Artursson
Professor, Uppsala University, Sweden

Munir Pirmohamad
Professor, University of Liverpool, UK

Session Speakers in Alphabetical Order

Patrick Augustiïns
Professor, University of Leuven, Belgium

Sarah Barthold
Dr., Glatt, Germany

Annette Bauer-Brändli
Professor, Dr. Syddansk Universitet, Denmark

Robert Bies
Associate Professor, University of Buffalo, USA

Maria Blanco-Prieto
Professor, University of Navarra, Spain

Gerrit Borchard
Professor, University of Geneva, Switzerland

Martin Brandl
Professor, Syddansk Universitet, Denmark

Hartmund Derendorf
Professor, University of Florida, USA

Aris Dokoumetzidis
Assistant Professor, University of Athens, Greece

Rogerio Gaspar
Professor, University of Lisbon, Portugal

Devrim Gözüaçik
Dr. , CinnaGen, Turkey

Amir Farshchi
Dr., Argen, US

Thomas Felix
Dr., University of Halle, Germany

Richard Harvey
Professor of Molecular Toxicology, Karolinska Institutet, Sweden

Konstantina Soulele
Ph.D., University of Athens, Greece

Ulrike Konrad
Dr., The Biosimilars Group, Germany

Lars Kueffer
Dr., RWTH Aachen, Germany

Stefan Lauffer
Professor, University of Tuebingen, Germany

Caroline Lemarchand
Stallergenes Greer, Pharmaceutical Development Director

Panos Macheras
Emeritus Professor, University of Athens, Greece

Andrew Owen
Professor, University of Liverpool, UK

Christos Reppas
Professor, University of Athens, Greece

Despina Sanoudou
Associate Professor, University of Athens, Greece

Rana Sanyal
Professor, Bogazici University, Turkey

Umut Saplakoglu
Dr. GE Healthcare, Turkey

Karl-Heinz Seyfang
Dr., Hoelfiger, Germany

Romano Silvestri
Professor, Sapienza University of Roma, Italy

Kristian Stromgaard
Professor, University of Copenhagen, Denmark

Maria Vertzoni
Assistant Professor , University of Athens, Greece

Arnold Vulto
Professor, Erasmus MC, Netherlands

Werner Weitschies
Professor, University of Greifswald, Germany

Irem Yenice
Ph.D., Arven Pharma, Turkey
Authors Index

A

Al-Hilal, Taslim OP-17
Acar, Füsun EP43
Adamczak, Joanna EP25
Afentitis, Antreas EP85
Aguzz, Carol EP99
Ahsan, Fakhru EP-17
Akbas, Sedanay EP66, EP95
Akkin, Safiye EP44
Aksoy, Eda Ayse EP60
Ahsan, Fakhru OP-17
Akin, Safiye EP44
Aksoy, Eda Ayse EP60
Ahsan, Fakhru OP-16, OP-21

B

Bacskay, Idiko EP53, EP64
Bahr, Fatma Goksin EP23
Balafas, Evangelos OP-08
Balogh, Attila EP72
Balogh, Emese EP49
Barbakou, Konstantina EP05
Basa-Denes, Orsolya OP-04
Bauer-Brandl, Annette FP-01
Baysal, Ipek EP68, EP69
Bektas, Derya EP89
Benigni, Marta EP96
Benito, Juan M. OP-16
Berber, Jona EP17
Bergamin, Camilla EP82, OP-24
Bermudez, Marival EP03
Blasi, Paol EP-05
Bloch, Katarzyna M OP-11
Bozdag Pehlivan, Nikolaos FP-06
Bozdag Pehlivan, Sibel EP62
Bozkir, Asuman EP42
Bor, Gorka EP90
Broersen, Laus EP15
Bruder, Sibel EP-01
Bruder, Laus OP-12
Bruni, Giovanna EP79

C

Caglar, Emre Sefik EP-03, EP32
Calik, Filiz EP52
Calis, Sema EP62
Camilleri, Emelie EP15
Capan, Yilmaz EP66, EP95
Caramella, Carla Marcella OP-13
Cardoso de Faria, Naially EP10, EP27
Cavalieri, Elena EP78
Cavallaro, Maria EP38
Ceci, Adriana EP41
Celebirt, Mustafa EP74, OP-21
Celik Tekeli, Merve EP94
Cerna, Lucie OP-19
Cetina Cizmek, Biserka EP30
Chen, Yan-Ping EP11, EP12
Chierico, Marco OP-11
Christodoulou, Erna FP-04
Clozuro, Francesco EP21, OP-20
Clavon Torres, Joana EP38
Clementino, Adriyana EP82, OP-24
Coban, Ozlem EP79
Colin, Simona EP90
Colombo, Gaia OP-08, OP-24
Csaba, Noemi EP15
Czaszar, Tamás EP90
Csoka, Idiko EP18, EP65
Cullu, Oresta EP38
Cvijic, Sandra EP06

D

Daniels, Rolf EP33
Daskin, Demet FP-06
Degirm, Selahagül EP20
Demirbogel, Gullen Melike EP75
Denora, Nunzi EP91
Devrim, Burcu EP42
de Diego, Heidi Lopez OP-07
de Paula, Eneida EP10, EP27
de Wildt, Saskia EP41
Dingemans, Jasper EP61
Dobrev, Petra EP08
Dokourmetidis, Anis EP46
Doreth, Maria OP-07
Dösl, Sibel EP81
Duraloglu, Ceren EP67

E

Edinger, Magnus OP-07
Eleftheriadis, Georgios EP22
Elmiasza, Akin EP54
erkila, Iva EP30
Ercan, Ayse EP74, OP-16, OP-21
Erdal, M. Sedef EP81
Erdem, Volkan EP80
Erdogar, Nazli OP44, EP91, FP-06
Erikk, Ayse EP68, EP69
Eroglu, Hakan EP39
Esentürk, Imer EP81

F

Fabiano, Angela OP-23
Falk, Andreas EP25, EP26
Farina, Hervé EP61
Farkas, Dora EP86
Fatourou, Dimitrios EP22
Feher, Palma EP53, EP64
Fekete, Helga EP65
Fenyvesi, Ferenc EP53, EP64
Fenyvesi, Éva EP64
Filannino, Dominica EP38
Filippouo, Maria FP-03
Fink-Dremmels, Johanna EP24
Fluhmann, Beat OP-01
Foss, Stian OP-05
Francescato, Margherita OP-11
Franzé, Silvia EP16, OP-20
Fülöp, Viktor EP69, EP86
Furlanello, Cesare OP-11

G

Gancheva, Gabriela EP09
Garcia-Fuentes, Marcos EP15
Garsen, Johan EP24, OP-12
Gehin, Martine EP61
Gencer, Ayse EP67
Geriou, Eyihiema EP05
Gioiello, Antimo EP76
Giovangnoli, Stefano EP57, EP59
Gkolfi, Evgenia EP71
Glavinis, Hristos OP-04
Goci, Enkelejda EP17
Gökçe, Beyza Betül EP52
Gökçe, Evren Homan EP48
Gonzalez-Alvarez, Isabel EP03
Gonzalez-Alvarez, Marta EP03
Gou, Gi EP19
Goumas, Konstantinos EP71
Grandjean, Cyril EP15
Gregory, Richard OP-11
Το κλειδί της επιτυχίας μας είναι οι άνθρωποί μας.

THE BEST PEOPLE TO WORK WITH

Η χαρά μας είναι... απεριόριστη! Για 4η συνεχόμενη χρονιά, όλες οι εμείς στη βιοφαρμακευτική εταιρεία AbbVie μετράμε άλλη μία μεγάλη διάκριση. Από την ετήσια έρευνα Best WorkPlaces 2018, η AbbVie κατατάσσεται στην 3η θέση στην κατηγορία των επιχειρήσεων με 50 έως 250 εργαζόμενους. Το πάθος, το όραμα, η ικανότητα, η εξέλιξη, η καινοτομία, η ομαδικότητα των άνθρωπων μας και οι αξίες της εταιρείας είναι μερικά μόνο από τα χαρακτηριστικά που μας κάνουν να ξεχωρίζουμε και να ξεκλειδώνουμε διαρκώς νέες επιτυχίες!

PEOPLE, PASSION, POSSIBILITIES.