Scientific Program

9:00

Opening Welcome

Imre Klebovich

Co-Chair of the Workshop
Co-Chair of the Committee on Pharmaceutical Sciences
Chair of Working Committee on Separation Sciences of the
Hungarian Academy of Sciences (MTA)

Budapest, Hungary

Ágoston Szél

Rector of Semmelweis University

Budapest, Hungary

Sabine Kopp

World Health Organization (WHO)

Geneva, Switzerland

Hilda Kőszegi-Szalai

GYEMSZI – National Institute of Pharmacy, Deputy Director General

Budapest, Hungary

Roger L. Williams

Former CEO and Chair, Council of Experts
United States Pharmacopeial Convention (USP)

Rockville, MD, USA

Leslie Z. Benet

Founder President of the American Association of Pharmaceutical Scientists (AAPS)

San Francisco, CA, USA

Clive G. Wilson

Past President of the European Federation for Pharmaceutical Sciences (EUFEPS)

Glasgow, Scotland, UK

Vinod P. Shah

Co-Chair of the Workshop
International Pharmaceutical Federation/SIG
Chair of Regulatory Sciences (FIP)

Tangan Provident of the American Association

Former President of the American Association of Pharmaceutical Scientists (AAPS)

North Potomac, MD, USA

Session 1: Regulatory Perspe	ectives
Chairs: Stefan Mühlebach (Glattbrugg, Basel, Switzerland) K. Wayne Riggs (Vancouver, BC, Canada)	
Hurdles and Challenges in Harmonising Drug Regulations Tamás L. Paál University of Szeged, Szeged, Hungary GYEMSZI-National Institute of Pharmacy, Budapest, Hungary	9:30
Basic Concepts: They Keep Changing Leslie Z. Benet University of California, San Francisco, CA, USA	10:00
Coffee Break, Exhibition	10:30
Session 2: Regulatory Perspectives: Quality and Bioequiv	alence
Chairs: Tamás L. Paál (Szeged, Budapest, Hungary), Romána Zelkó (Budapest, Hungary)	
FDA Perspective on Product Quality and Bioequivalence Vinod P. Shah International Pharmaceutical Federation / SIG Chair of Regulatory Sciences, North Potomac, MD, USA	11:00
WHO Perspective on Quality Assurance and Medicinal Safety	11:30
Sabine Kopp World Health Organization, WHO, Geneva, Switzerland	
Newer Considerations and Regulatory Guidance on BE – EMA Perspective	12:00
Evangelos Kotzagiorgis European Medicines Agency, EMA, London, UK	
Panel Discussion I. Q and A	12:30
Moderators: Gordon L. Amidon (Ann Arbor, MI, USA) Roger L. Williams (Rockville, MD, USA)	
Lunch, Exhibition	13:00

Session 3:

Advances in Pharmacokinetics

Chairs: Surendra K. Bansal (New York, NY, USA)

Meir Bialer (Jerusalem, Israel)

14:00 Impact of Bioequivalence Studies on the Progresses of Pharmaceutical Sciences in Generic Industry Within Last 35 Years

A. Atilla Hincal

Hacettepe University, Ankara, Turkey IDE Pharmaceutical Registration Biopharmaceutics Consultation Education Ltd. Co., Ankara, Turkey

14:30 Advances in Pharmacokinetics Related EMA Regulations

José A. G. Morais

University of Lisbon, Lisbon, Portugal

15:00 Oral Drug Absorption: Science and Regulation
Panos Macheras

National and Kapodistrian University of Athens, Athens, Greece

15:30 Coffee Break, Exhibition

Session 4:

16:00

17:00

Drug and Food Interactions

Chairs: László Endrényi (Toronto, ON, Canada)
Peep Veski (Tartu. Estonia)

Drug Interactions - Alcohol, Smoking and Caffeine Imre Klebovich

Semmelweis University, Budapest, Hungary

16:30 Application of an *In Vitro* Lipolysis Model to Predict Positive

James E. Polli

University of Maryland, Baltimore, MD, USA

Panel Discussion II.

Q and A

Moderators: Sabine Kopp (Geneva, Switzerland)

Vinod P. Shah (North Potomac, MD, USA)

Social Programs

Concert of the Semmelweis Chamber Orchestra

19:00

in the Matthias Church, Conductor László Tardy

<mark>1014 Budapest, Szentháromság Square 2.</mark>

Entry by badge and invitation card only

Banquet Dinner in the Hungarian National Gallery

20:30

Royal Palace of Buda, Building C.

<mark>1014 Budapest, Szent György Square 2.</mark>

Entry by badge and invitation card only

Welcome Addresses by:

Ferenc Joó

President of Section of Chemical Sciences of the Hungarian Academy of Sciences (MTA)

Éva Szökő

President of the Hungarian Society for Pharmaceutical Sciences (HSPS)

László Vécsei

President of the Section of Medical Sciences of the Hungarian Academy of Sciences (MTA)

Vinod P. Shah and Imre Klebovich

Co-Chairs of the Workshop

The performers of the evening:

Botafogo Dance Ensemble

Jenő Esze's Dance and Salon Music Band

Event Sponsor: CAPSUGEL®

Day 2: Tuesday, May 20, 2014

Session 5: BCS, Dissolution and Biowaiver

Chairs: Olavi Pelkonen (Oulu, Finland)
István Tóth (Saint Lucia, Old, Australia)

9:00 Role of Dissolution in Regulating Pharmaceutical Products

Vinod P. Shah

International Pharmaceutical Federation / SIG Chair of Regulatory Sciences, North Potomac, MD, USA

9:30 BCS and Beyond: Limitations and Harmonization (The New Science of BE)

Gordon L. Amidon

University of Michigan, Ann Arbor, MI, USA

10:00 Exploiting BDDCS and the Role of Transporters

Leslie Z. Benet

University of California, San Francisco, CA, USA

10:30 Coffee Break, Exhibition

Advances in Dissolution

Chairs: Evangelos Kotzagiorgis (London, UK)
Constantin Mircioiu (Bucharest, Romania)

11:00 Advances in IVIVC

James E. Polli

Session 6:

University of Maryland, Baltimore, MD, USA

11:30 Bioperformance Dissolution Standards:
In Vivo Predictive Dissolution (IPD)
Gordon L. Amidon

University of Michigan, Ann Arbor, MI, USA

Day 2: Tuesday, May 20, 2014

Panel Discussion III. Q and A Moderators: Daan J. A. Crommelin (Utrecht, The Netherlands) Clive G. Wilson (Glasgow, Scotland, UK)	12:00
Lunch, Exhibition	12:30
Session 7: Regulatory Trends in Bioan	alysis
Chairs: Hilda Kőszegi-Szalai (Budapest, Hungary) José A. G. Morais (Lisbon, Portugal)	
Bioanalytical Method Validation and Samples Analysis – Lessons Learned from Regulatory Inspections Surendra K. Bansal F. Hoffmann-La Roche Inc., New York, NY, USA	13:30
Where Are We with Respect to Global Harmonization in Guidance of Bioanalytical Method Validation? Daniel Tang ICON Development Solutions, APAC, Shanghai, China	14:00
Analytical Aspects of Biologics Applied in Pharmaceutical Development Felix Heise, Hanns-Christian Mahler F. Hoffmann-La Roche Ltd., Basel, Switzerland	14:30
Challenges in Using Capillary Electrophoresis in Analysing Therapeutic Proteins Jim Thorn	15:00
AB SCIEX Separations Ltd., Warrington, UK	
Coffee Break, Exhibition	15:30

Day 2: Tuesday, May 20, 2014

Session 8: Biosimilars and Complex Drug Products

Chairs: István Greiner (Budapest, Hungary)

Milena Jadrijević-Mladar Takač (Zagreb, Croatia)

16:00 Biosimilars: Status Regulatory Pathways and Remaining Questions

Daan J. A. Crommelin

Utrecht University, Utrecht, The Netherlands

16:30 Interchangeability:

A Challenge for Non-Biological Complex Drugs (NBCDs)

Stefan Mühlebach

Vifor Pharma Ltd., Glattbrugg, Switzerland University of Basel, Basel, Switzerland

17:00 Assessment of the Similarity and Interchangeability of Biological Drug Products

László Endrényi¹, László Tóthfalusi²

¹University of Toronto, Toronto, ON, Canada ²Semmelweis University, Budapest, Hungary

17:30 Panel Discussion IV.

Q and A

Moderators: Nicholas M. Fleischer (Washington, DC, USA)
Sven Stegemann (Bornem, Belgium)

Social Programs

19:30

Concert of the Dohnányi Orchestra Budafok

in the Liszt Ferenc Academy of Music Conductor Gábor Hollerung

1061 Budapest, Liszt Ferenc Square 8.

The Sponsor of the Concert:



After the Concert:

Cocktail Reception in the Liszt Ferenc Academy of Music, 1st floor

Entry by badge and invitation card only

Day 3: Wednesday, May 21, 2014

Session 9: Looking into the I	uture
Chairs: István Antal (Budapest, Hungary) A. Atilla Hincal (Ankara, Turkey)	
Reducing Regulatory Burden for Well-Established Drugs Roger L. Williams US Pharmacopeia, Rockville, MD, USA	9:00
New Challenges but Rewarding Opportunities in Translating Pharmaceutical Development Projects into Successful Therapeutics	9:30
Imre G. Bajusz Novartis Pharmaceuticals Ltd., Basel, Switzerland	
Challenges of Biosimilars – A Perspective István Greiner	10:00
Gedeon Richter Plc., Budapest, Hungary	
Coffee Break, Exhibition	10:30
O : 40 Leading into the Follows New To	
Session 10: Looking into the Future: New Tr	ends?
Chairs: Imre G. Bajusz (Basel, Switzerland) Irene Krämer (Mainz, Germany)	ends?
Chairs: Imre G. Bajusz (Basel, Switzerland) Irene Krämer (Mainz, Germany) The Me-Too Paradigm – a Threat for Pharmaceutical Progress? Roadmap Towards a New Quality Target Product Profile (QTPP) for Enhanced Therapeutic Entities	11:00
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Day 3: Wednesday, May 21, 2014

Panel Discussion V. Q and A

> Moderators: Leslie Z. Benet (San Francisco, CA, USA) Panos Macheras (Athens, Greece)

Lunch, Exhibition

Session 11: Looking into the Future: Biopharmaceutical Aspects

Chairs: Mitsuru Hashida (Kyoto, Japan) Arto Urtti (Helsinki, Kuopio, Finland)

Dosage Form Attributes and Biopharmaceutical Performance Clive G. Wilson University of Strathclyde, Glasgow, Scotland, UK

Application of Cyclodextrins in Drug Formulations

Laios Szente

Semmelweis University, Budapest, Hungary

CycloLab Ltd., Budapest, Hungary

Novel Approaches in Drug Delivery Systems István Antal

12:30

13:00

14:00

14:30

15:00

Day 3: Wednesday, May 21, 2014

Session 12: Looking into the Future: New Delivery Systems

Chairs: Daniel Tang (Shanghai, China)
Lajos Szente (Budapest, Hungary)

Pharmacovigilance Aspects of Biosimilar Products

Irene Krämer

University of Johannes Gutenberg, Mainz, Germany

Advances in Targeted and Gene Delivery
Mitsuru Hashida

Kyoto University, Kyoto, Japan

Ocular Drug Delivery: Formulation and Bioequivalence Issues

Arto Urtti

Centre for Drug Research, University of Helsinki, Helsinki, Finland School of Pharmacy, University of Eastern Finland, Kuopio, Finland

Panel Discussion VI.

Moderators: James E. Polli (Baltimore, MD, USA)
Henning H. Blume (Oberursel, Germany)

Closing Remarks

Q and A

Vinod P. Shah and Imre Klebovich Co-Chairs of the Workshop



16:00

17:00

16:30

17:30

18:00