## **April 12, 2018**

13:00 - 14:00 Lunch break

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08:00 - 09:00	Registration
09:00 - 09:10	Opening and welcome
	(Moderator: Henning Blume)
	Erem Bilensoy, EUFEPS President, Ankara TR Mehul Mehta, US Food and Drug Administration, Silver Spring MD USA
09:10 - 09:30	International Harmonization of BE Requirements - an EU perspective Tomas Salmonson, European Medicines Agency, Uppsala S
	Tomas Sumonson, European Medicines Agency, Oppsala S
9:30 – 13:00	
Session I:	Outcome summary and tying up loose ends of 2 <sup>nd</sup> GBHI conference 2016 in
	Rockville/USA Session co-chairs:
	Henning Blume, SocraTec C&S, Oberursel DE
	Mei-Ling Chen, Washington DC USA
	Prodrugs and compounds with pre-systemic extraction
09:30 - 09:45	Conclusions from previous discussions at GBHI 2016 and open issues
	Mei-Ling Chen, Washington DC USA
09:45 - 10:00	Suggestions for further harmonization of remaining open issues Henning Blume, SocraTec C&S, Oberursel DE
10:00 - 10:30	Discussion
10:30 - 11:00	Coffee and tea break
	Scaling procedure and adaptive design(s)
11:00 - 11:15	Conclusions from previous discussions at GBHI 2016 and open issues
	Andreas Brandt, BfArM, Bonn DE
11:15 - 11:30	Suggestions for further harmonization of remaining open issues  Lazlo Endrenyi, University Toronto CAN (to be confirmed)
11:30 - 12:00	Discussion
	Exclusion of PK data in BE assessment
12:00 - 12:15	Conclusion from previous discussions at GBHI 2016 and open issues Wenlei Jiang, FDA, Silver Spring MD USA
12:15 - 12:30	Suggestions for further harmonization of remaining open issues
	Keith D. Gallicano, Novum Pharmaceutical Research, Pittsburgh USA
12:30 – 13:00	Discussion

Necessity of multiple dose studies in BE testing

Session II:

Session co-chairs:

	Gerald Beuerle, Teva, Ulm DE
	Nilufer Tampal, US-FDA, Silver Spring MD USA
	Introduction to Session II:
14:00 - 14:20	Similarities and differences between international guidelines  Gerald Beuerle, Teva, Ulm DE
14:20 - 14:35	Steady state studies in BE assessment - current US regulatory approach
	Nilufer Tampal, US-FDA, Silver Spring MD USA
14:35 - 14:50	Justification of the current regulatory approach by EMA prohibiting the extrapolation of single dose BE to steady state in many cases  Alfredo Garcia, Agencia Española de Medicamentos, Madrid ES
14:50 - 15:20	Discussion
	Invited Presentations:
15:20 - 15:40	Scientific arguments in favor and against the requirement to perform steady state studies for MR products  Murray Ducharme, Learn/Confirm, Montreal CAN
15:40 – 16:00	Discussion
16:00 - 16:30	Coffee and tea break
16:30 - 16:50	Primary and secondary PK metrics for evaluation of steady state studies, $C_{min}$ vs. $C_{\tau}$ , relevance of $C_{min}/C_{\tau}$ or fluctuation for bioequivalence assessment Helmut Schütz, BEBAC, Vienna AU
16:50 – 17:05	Discussion
17:05 - 17:25	Alternatives to steady state studies: Modelling/simulation or use of further parameters (e.g. partial AUC or plateau time) to better characterize plasma profiles after single dose administration
	Yu Chung Tsang, Apotex, Toronto CAN
17:25 - 17:40	Discussion
17:40 - 18:30	Overall Discussion
19:00 - 22:00	Conference dinner



## **April 13, 2018**

Session III:	BE of Transdermal Delivery Systems Session co-chairs: Barbara Schug, SocraTec R&D, Oberursel DE Mehul Mehta, US Food and Drug Administration, Silver Spring MD USA
	Introduction to Session Part I – bioequivalence and patch adhesion:
08:00 - 08:20	Bioequivalence and patch adhesion: similarities and differences between international guidelines Barbara Schug, SocraTec R&D, Oberursel DE
08:20 - 08:35	Scientific arguments for the US perspective  Markham Luke, FDA, Silver Spring MD USA
08:35 - 08:50	Scientific arguments for the European perspective
	Janet Schriever, BfArM, Bonn DE
08:50 - 09:20	Discussion
	Invited Presentations:
09:20 - 09:40	Bioequivalence assessment for transdermal patches with diverging dosing intervals – Meaningful approaches for study design and selection of pharmacokinetic measures Björn Schurad, Luye Pharma, Miesbach DE
09:40 - 09:55	Discussion
9:55 - 10:15	Coffee and tea break
10·15 - 10·35	Patch adhesion studies: evaluation and statistics
10.13 10.03	Martin Holz, Statistics Consultant, Tarp DE
10:35 - 10:50	Discussion
10.50 11.15	
10:50 - 11:15	Skin irritation and sensitization studies: a medical appraisal of the currently applied guidelines  Walter Wigger-Alberti, Bioskin, Hamburg DE
11:15 - 12:00	Overall discussion with introductory statements
	US-FDA perspective: Markham Luke, FDA, Silver Spring MD USA
	EU regulatory authorities' perspective: Henrike Potthast, BfArM, Bonn DE

12:00 - 13:00 Lunch break

Session IV:	Liposomal parenteral preparations Session co-chairs: Wenlei Jiang, US-FDA, Silver Spring MD USA Henrike Potthast, BfArM, Bonn DE
	Introduction to Session Part IV:
13:00 - 13:20	Liposome-based therapeutics: Impact of formulation on pharmacokinetics and pharmacodynamics Alberto A. Gabizon, University Jerusalem IL
13:20 - 13:35	Current FDA Regulatory Thinking of BE Evaluation of Liposome Products Wenlei Jiang, US-FDA, Silver Spring MD USA
13:35 - 13:50	Current EMA regulatory thinking regarding bioequivalence of liposomal products Henrike Potthast, BfArM, Bonn DE
13:50 – 14:10	Discussion
	Invited Presentations:
14:10 - 14:30	Necessity of determining released and encapsulated drug in liposomal parenteral formulations: Doxorubicin  Peter Langguth, University Mainz, Mainz DE
14:30 - 14:45	Discussion
14:45 - 15:05	Coffee and tea break
15:05 - 15:25	Relevance of non- dose-proportional PK and body surface-area adjusted dosing for BE assessment: intra-individual exposure comparison and extrapolation between indications Georg Hempel, University Münster DE
15:25 - 15:40	Discussion
15:40 - 16:00	Adequate criteria for assessment of bioequivalence for generic liposomal products  Daan Crommelin, University Utrecht NL
16:00 - 16:15	Discussion
16:15 - 16:50	Overall Discussion of Session IV
16:50 - 17:00	Closing remarks, Future of the Global Bioequivalence Harmonization Initiative