

5th USP Workshop on Therapeutic Peptides: Regulations, Standards and Quality November 5-6, 2018 USP Headquarters, Rockville, Maryland, USA

~FINAL AGENDA~ October 24 2018

Day One: Monday, November 5, 2018

8:00 a.m.	Registration & Coffee
8:30 a.m.	USP Welcome Fouad Atouf, Ph.D. <i>Vice President, Global Biologics, USP</i>
8:40 a.m.	Workshop Overview Michael De Felippis, Ph.D. <i>Chair, USP BIO1 – Peptides and Insulins Expert Committee</i>
8:50 a.m. –10:30 a.m.	Session I – Regulatory Considerations Session Chair: Donna Christner, Ph.D.; Cory Evans, Ph.D.; Adam Fisher, Ph.D. Government Liaison, USP BIO1 – Peptides and Insulins Expert Committee
8:55 a.m.	Integrating Approaches from Different Product Modalities to Create Advanced Regulatory Strategies for Peptides Speaker: Allison Wolf, Ph.D., Eli Lilly
9:15 a.m.	Setting of Peptide API Specifications Speaker: Jean-Marc Poudrel, Ph.D., PolyPeptide
9:35 a.m.	European Regulatory Update on CMC Requirements for Synthetic Peptides Speaker: René Thürmer, Ph.D., BfArM
9:55 a.m.	Follow up Discussion on FDA Guidance after Public Comments Speaker: Xiaohui (Jeff) Jiang, Ph.D., FDA
10:15 a.m.	Panel Discussion / Q&A
10:30 a.m. Break (20 min)	Networking
10:50 a.m. –12:30 p.m.	. Session II – Manufacturing and Control Strategy Considerations Session Chair: Michael Verlander, Ph.D. Member, USP BIO1 – Peptides and Insulins Expert Committee
10:55 a.m.	Synthetic Peptide API Manufacturing: A Mini Review Speaker: Jon Rasmussen, Ph.D., PolyPeptide
11:15 a.m.	High-Fidelity Flow Synthesis of Peptides and Proteins Speaker: Bradley Pentelute, Ph.D., MIT
11:35 a.m.	Convergent Peptide Syntheses: A Platform for Commercial Peptide Manufacturing Speaker: Kevin Seibert, Ph.D., Eli Lilly



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11:55 p.m.	Development of Differentiated Peptide Therapeutic Products using an Innovative Formulation Technology Speaker: Jan Jezek, Ph.D., Arecor
12:15 p.m.	Panel Discussion/Q&A
12:30 p.m.	Networking Lunch/Poster Presentation
1:30 p.m. –3:30 p.m.	Session III – Analytical Technology Session Chair: Wilfried Arz, Ph.D. <i>Member, USP BIO1 – Peptides and Insulins Expert Committee</i>
1:35 p.m.	One-Fell-Swoop Chromatography for In-Process Assay of Linaclotide Speaker: Daniel Studelska, Ph.D., Mallinckrodt
1:55 p.m.	Charge Variant Analysis of Therapeutic Peptides Speaker: Anuja Rane, Ph.D., TEVA
2:15 p.m.	Synthetic Therapeutic Peptide Structure Elucidation and Purity Analysis by NMR Speaker: Edwin Kellenbach, Ph.D., Aspen Pharm
2:35 p.m.	Just What the Doctor Ordered: How NMR Can Address Challenging Cases of Peptide Drug Characterization Speaker: Jordan Chill, Ph.D., Bar-Ilan University
2:55 p.m.	Quantitative HPLC determination of D-His-Glucagon with Proteolytic Sample Preparation Speaker: Michael Berger, Bachem
3:15 p.m.	Panel Discussion/Q&A
3:30 p.m. –5:00 p.m.	Poster Presentation & Networking Reception



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Day Two: Tuesday, November 6, 2018		
8:30 a.m.	Registration & Coffee	
9:00 a.m. –10:00 a.m.	Session IV – Bioassay Session Chair: Gyongyi Gratzl, Ph.D. <i>Member, USP BIO1 – Peptides and Insulins Committee,</i> and Ken Miller, Ph.D. <i>Vice Chair, USP General Chapter Biological Analysis Expert Committee</i>	
9:05 a.m.	Cell-Based Bioassays in Compendial Standards Speaker: Maura Kibbey, Ph.D., USP	
9:25 a.m.	Bioassay and a Phase Appropriate Control Strategy for Synthetic Therapeutic Peptides APIs Speaker: Scott Allen Frank, Ph.D., Eli Lilly	
9:45 a.m.	Panel Discussion / Q&A	
10:00 a.m.	Networking Break (20 min)	
10:20 a.m. –11:50 a.m.	Session V – Impurities and Immunogenicity Session Chair: Gerhard Haas, Ph.D. <i>Member, USP BIO1 – Peptides and Insulins Committee</i>	
10:25 a.m.	Peptide Physical Stability and Non-Covalent Aggregation: Challenges and Solution Speaker: Norbert Nagel, Ph.D., Sanofi	
10:45 a.m.	Therapeutic Peptide Aggregation Studies with Orthogonal Techniques Speaker: Gyongyi Gratzl, Ph.D., Hikma	
11:05 a.m.	Immunogenicity and Impurities Speaker: Daniela Verthelyi, Ph.D., FDA	
11:25 a.m.	Panel Discussion / Q&A	
11:50 a.m.	Networking Lunch	
1:00 p.m. – 2:25 p.m.	Session VI – Peptide Vaccines Session Chair: Ved Srivastava, Ph.D. <i>Member, USP BIO1 – Peptides and Insulins Committee</i>	
1:05 p.m.	Development of Personal Cancer Vaccine NEO-PV-01 Speaker: Jesse Dong, Ph.D., Neon Therapeutics	
1:25 p.m.	The GAPVAC Project: Active Personalization of Peptide Vaccines for Patients with Newly Diagnosed Glioblastoma Speaker: Norbert Hilf, Ph.D., Immatics	



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- 1:45 p.m. Current Regulatory Perspectives on Therapeutic Peptide Vaccines Speaker: S. Rafat Husain, Ph.D., FDA
- 2:05 p.m. Panel Discussion / Q&A
- 2:25 p.m. Workshop Wrap-up Michael De Felippis, Ph.D. *Chair, USP BIO1 – Peptides and Insulins Expert Committee*
- 2:40 p.m. Workshop Concludes