

Programme

16th – 22th January 2006



23rd – 27th January 2006

	Modul P : Biodegradable polymer carriers		Modul S : Transdermal delivery	
Day	Morning (9.00 – 12.00)	Afternoon (13. 00 - 16.30)	Morning (8.30 – 12.00)	Afternoon (13. 00 - 16.30)
Mo	9. 00 Arrivals, Presentation 9.30 Introducing Information 9.45 Welcome Coffee Break 10.15 Introducing Informations 11. 20 Inspection of the Dep. Pharm. Technology Labs	<i>Seminary and Laboratory Modul P1</i> Polymers - pharmaceutically relevant properties • Aliphatic polyesters, homopolymers, copolymers • Molecule modification methods	9.00 <i>Discussion morning</i> • Participants presentation of their own topics and discussion	<i>Seminary and Laboratory Modul S1</i> DSC evaluation of interaction skin lipids-drug-enhancer ; thermotropic phase behaviour of lipids • Principles • Sample Preparation • DSC Measurement
Tue	<i>Seminary Modul P2</i> Polymers – methods of analysis • Configuration conformation, constitution • Thermal, mechan. properties	<i>Laboratory Modul P2</i> Selected methods of evaluation (Visit of SYNPO Institute Pardubice) • GPC, GPC-MALS, DSC	<i>Laboratory Modul S1 (continuation)</i> • Preparation of model multi- and unilamellar liposomes • PCS size measurements • Results interpretation	<i>Seminary and Laboratory Modul S2, S3</i> Zetasizer theory; Nanosuspensions • Emulsiflex E-5 • Microemulsion preparing • Nanocrystal and SLN preparation
We	<i>Seminary Modul P3</i> Particulate systems • Microspheres, microcapsules • Preparation methods methods • Structure evaluation	<i>Laboratory Modul P3</i> P3a Micro- and nanoparticles preparation by spray drying and emulsion solvent distribution method P3b Image analysis, texture analysis	<i>Laboratory Modul S2,S3 (continuation)</i> • Zeta Potential- pH titration • Nanoparticle size measurement • Data interpretation	<i>Seminary and Laboratory Modul S4</i> Skin penetration and permeation enhancement • Stripping method adjustment • Permeation method adjustment
Thu	<i>Seminary and Laboratory Modul P4</i> Bioadhesive materials • Bioadhesivity • Drug release in vitro • Interactions in vivo	<i>Seminary Modul P5</i> Imunocompatibility of biodegradable particulate systems	Laboratory Modul S4 (continuation) • Skin permeability measurement • Evaluation of data • Results interpretation	<i>Laboratory Modul S5</i> Skin electroporation • Principles, variables • El. current and skin barrier • In vitro experiment adjustment
Fri	<i>Invited Lecture</i> (3 h) Harvest and preservation of tissues for drug delivery studies; <i>Excursion</i> ca 2 hours		<i>Final Discussion</i> Conclusions	
Sat	9.30 – 12.00 Social program in Prague (optional)		14.00 – 16.00 Invited Lectures	
Sun	Free-time program in Prague		Free-time program in Prague (comeback to Hradec Kralove on evening)	