FEBS PLC2016 Ligand-binding course

July 3 July 10, 2016 Nové Hrady

	Morning: FEBS Lectures[a]	Afternoon: FEBS Lab Exercises[b]	Evening
Sunday, July 3	Arrival, Registration (all day) Mounting posters	**18:00** Welcome reception Poster viewing	Lab tutors' roundtable. **Group 1**: Dialysis samples for ITC tomorrow (~ 20 min)
Monday, July 4	**8:30 12:30 FEBS Lectures** Opening remarks **Seminar:** Introduction to Ligand-binding theory I [Jannette Carrey] **10:30 12:30** Coffee break **Workshop:** Problem-solving and computational exercises [W.-F. Xue]	**14:00-19:00 Lab exercises** Analysis of ligand binding in participants' own systems: Group 1: ITC [B. Turnbull] Group 2: SPR [W.-F. Xue] Group 3: UV [A. Bellelli] Group 4: Fluorescence [A. Gorecki] Group 5: Thermophoresis [D. Witte]	**21:00** Speakers' and tutors' roundtables Poster judging by organizers and tutors Social hour and poster viewing **Group 5**: Dialyse samples for ITC
Tuesday, July 5	**9:00-12:30 FEBS Lectures** Announcement of poster talks Introduction to ligand-binding theory II [Jannette Carey] Surface plasmon resonance [Wei-Feng Xue] **10:30-10:45** Coffee break Isothermal titration calorimetry [Bruce Turnbull] Microscale thermophoresis [David Witte]	**14:00-19:00 Lab exercises** Analysis of ligand binding in participants' own systems: Group 1: SPR [W.-F. Xue] Group 2: UV [A. Bellelli] Group 3: Fluorescence [A. Gorecki] Group 4: Thermophoresis [D. Witte] Group 5: ITC [B. Turnbull]	**21:00** Speakers' and tutors roundtable. Social hour and poster viewing
Wednesday July 6	**9:00-12:30 FEBS Lectures** UV-visible spectroscopy for ligand binding [Andrea Bellelli] Fluorescence spectroscopy for ligand binding [Andrzej Gorecki] **10:30-10:45** Coffee break Mass spectrometry for ligand binding [Rita Grandori] **Student Lectures** [Three participant speakers chosen from posters]	**12:30-22:00** Excursion Český Krumlov, UNESCO World Heritage Site	**Group 4**: Dialyse samples for ITC

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Thursday, July 7	**9:00-12:30 FEBS Lectures** History of allostery and entropic mechanisms [David Dryden] Analytical ultracentrifugation [Ondrej Vanek] **10:30-10:45** Coffee break Hemoglobin allostery [Andrea Bellelli] **Student Lectures** [Three student speakers chosen from posters]	**14:00-19:00 Lab exercises** Analysis of ligand binding in participants' own systems: Group 1: UV [A. Bellelli] Group 2: Fluorescence [A. Gorecki] Group 3: Thermophoresis [D. Witte] Group 4: ITC [B. Turnbull] Group 5: SPR [W.-F. Xue]	**21:00** Speakers' and tutors roundtable. Social hour and poster viewing **Group 3:** Dialyse samples for ITC
Friday, July 8	**9:00-12:30 FEBS Lectures** Protein NMR for ligand binding [Teresa Carlomagno] Nucleic acid NMR for ligand binding [Peter Lukavsky] **10:30-10:45** Coffee break Electroforetic mobility-shift [Daniel Charlier] **Student Lectures** [Three student speakers chosen from posters]	**14:00-19:00 Lab exercises** Analysis of ligand binding in participants' own systems: Group 1: Fluorescence [A. Gorecki] Group 2: Thermophoresis [D. Witte] Group 3: ITC [B. Turnbull] Group 4: SPR [W.-F. Xue] Group 5: UV [A. Bellelli]	**21:00** Speakers' and tutors roundtable. Social hour and poster viewing **Group 2:** Dialyse samples for ITC
Saturday, July 9	**9:00-12:30 FEBS Lectures** Overview of the practical methods [Jannette Carey] **Workshop:** Global computational analysis of students' binding results [Wei-Feng Xue] **10:30-10:45** Coffee break Preparation for students presentations	**14:00-19:00 Lab exercises** Analysis of ligand binding in participants' own systems: Group 1: Thermophoresis [D. Witte] Group 2: ITC [B. Turnbull] Group 3: SPR [W.-F. Xue] Group 4: UV [A. Bellelli] Group 5: Fluorescence [A. Gorecki]	**20:00-21:00** Plenary lecture: Ligand binding in modern drug development [Preston Hensley] **21:00** Farewell party
Sunday, July 10	**9:00-12:30 Student Lectures** Participants present ligand-binding data acquired in this course (10 minutes each) **10:30-10:45** Coffee break	Departure	