2015 PX Training Course ScheduleAugust 10 to August 15, 2015

(8/10) Day 1 Registration 13:00~14:00	(8/11) Day 2 Breakfast 08:00~09:00	(8/12) Day 3 Breakfast 08:00~09:00
	 Basic of X-ray Diffraction: Wave and Interference Effect Basic of X-ray Diffraction: Diffraction Pattern from One Unit Cell (One Molecule)-1 	Data Collection Strategy in Oscillation Geometry
Registration 13:00~14:00 M222	Lunch 12:00~13:00 E281	
 The Importance and Historical Review of PX Introduction of Protein Crystallization Introduction of Crystal Symmetry 	 Basic of X-ray Diffraction: Diffraction Pattern from One Unit Cell (One Molecule)-2 Basic of X-ray Diffraction: Diffraction Pattern from Many Unit Cells (One Crystal); Model Building from Electron Density Map 	Step-by-Step Practice of Data Processing with the HKL2000
Dinner 18:00~19:00 E281		
Crystallization of Czinc-free Insulin		Phase Problem and Phasing Methods
(8/13) Day 4 Breakfast 08:00~09:00	(8/14) Day 5 Breakfast 08:00~09:00	(8/15) Day 6 Breakfast 08:00~09:00
Comparison of MAD/SAD and MIR/SIR Phasing	 Optical Screening, Cryo-samples Preparation, Mounting and Centering SAD-Data Collection and Structure determination of Real Sample 	 Radiation Damage on Cryo-cooled Protein Crystals Se-MAD/SAD and S-SAD Data Collection Strategy
Lunch 12:00~13:00 E281		
Step-by-Step Practice of Structure Determination by SAD Phasing with CCP4	SAD-Data Collection and Structure determination of Real Sample	Cryo-Technique in Protein CrystallographyGroup Photos and Farewell
Dinner 18:00~19:00 E281		
Individual Practice of SAD Phasing	SAD-Data Collection and Structure determination of Real Sample	

Note: Gray section means hands-on session