

CCP4 Fukuoka Workshop and Computational Crystallography

October 29 – November 2
Biomedical Research Centre, Kyushu University

Course Tutors:

Charles Ballard (CCP4/STFC, UK)
Gabor Bunkozci (Cambridge, UK)
Ciaran Carolan (EMBL-Hamburg, Deutschland)
Paul Emsley (Oxford, UK)
Phil Evans (MRC-LMB, UK)
Kunio Hirata (RIKEN/SPRING-8, Japan)
Eugene Krissinel (CCP4/STFC/UK)
Garib Murshudov (MRC-LMB, UK)
Nobutoshi Ito (Tokyo Medical and Dental University, Japan)
Raj Pannu (Leiden, Netherlands)
Andrea Thorn (Goettingen, Deutschland)
Tim Wiegels (EMBL-Hamburg, Deutschland)

Lectures are timetabled to take place, with the afternoons dedicated to tutorials and problem solving.

Day 1 Data Collection and Processing (Room 105)		
9:00 – 9:10	Welcome	
9:10 – 9:50	Data collection at synchrotron	K. Hirata
9:50 – 10:30	Data collection strategy	K. Hirata
	Coffee break	
11:00 – 11:45	Data processing	P. Evans
11:45 – 12:30	Data Scaling	P. Evans
	Lunch Break	
14:00 onwards	CCP4i introduction Data processing tutorial Problem solving	P. Evans, C. Ballard
Day 2 Molecular Replacement (Room 205)		
9:00 – 9:45	Twinning and data quality	A. Thorn

9:45 – 10:30	MR pipelines	C. Ballard
	Coffee Break	
11:00 – 11:45	Manual MR, if automation fails	G. Bunkozci
11:45 – 12:30	Viewing in COOT	P. Emsley
	Lunch Break	
14:00 - onwards	MR tutorial	G. Murshudov, C. Ballard
	Coot tutorial	G. Bunkozci
	Problem Solving	P. Emsley
Day 3 Experimental Phasing (Room 205)		
9:00 – 9:45	Experimental phasing	A Thorn
9:45 – 10:30	EP pipelines	R. Pannu
	Coffee Break	
11:00 – 11:45	MR-SAD	G. Bunkozci
11:45 – 12:30	Density Modification	R. Pannu
	Lunch Break	
14:00 – onwards	EP Tutorial	R. Pannu, A. Thorn,
	DM Tutorial	G. Bunkozci
	Problem Solving	
Day 4 Model Building and Refinement (Room 205)		
9:00 – 9:45	Refinement	G. Murshudov
9:45 – 10:30	Refinement restraints	G. Murshudov
	Coffee Break	

11:00 – 11:45	Arp/Warp automatic building	T. Wiegels
11:45 – 12:30	More Coot	P. Emsley
	Lunch Break	
14:00 - onwards	Model building and Refinement tutorial Problem solving	T. Wiegels, G. Murshudov, P. Emsley, C. Carolan
Day 5 Ligands and analysis (Room 204)		
9:00 – 9:45	Arp/Warp ligands	C. Carolan
9:45 – 10:30	Oligimers and analysis	E. Krissinel
	Coffee Break	
11:00 – 11:45	The PDBj	N. Ito
11:45 – 12:30	Pretty Pictures	E. Krissinel/ C.Ballard
	Lunch Break	
14:00 - onwards	Ligand tutorial Problem solving	C. Carolan, T. Wiegels, E. Krissinel

The lectures are open.

The tutorial and problem solving sessions are limited to participants only.

Important: This schedule is a rough indicator, and will, in all likelihood, change from day to day.