	Lecture	Laboratory
Monday		
9:00 to 12:30	Proteomics and the two-hybrid system: achievements and perspectives Introduction to the yeast two-hybrid system Yeast as a Genetic Tool Two-hybrid system components The interaction-trap system as an example	
12:30 to 13:30	***Break***	
13:30 to 14:00	Bait Assessment	
14:00 to 17:30		Bait Assessment Yeast transformation Mating assay
Tuesday		
9:00 to 12:30	Library Screening Interaction mating YTH-related techniques(False Positives	
12:30 to 13:30	***Break***	
14:00 to 17:30		Mating assay (continued) Filter β-gal assay $CHCl_3$ overlay β-gal assay Yeast DNA prep and PCR
Wednesday		
9:00 to 12:30	Variations & New Developments Dual Bait system Split-ubiquitin system other non- trancription-based systems	
12:30 to 13:30	***Break***	
14:00 to 17:30		Analyse PCR products split-ubiquitin system, LexA-Gal4 comparison: replica-plating Bait Assessment (results) Yeast transformation (results)
Thursday		
9:00 to 12:00	Two-hybrid: what are your chances on success? Two-hybrid on the Internet Specialized yeast two-hybrid systems (one, 1.5, tri-hybrid, RNA etc.) Bacterial two-hybrid systems Using YTH to study interactions between components of multisubunit RNA polymerases	
12:30 to 13:30	***Break***	
13:30 to 17:00		Liquid β-gal assay Bacterial two-hybrid system: transformation Mating assay (results) False positives: plating
Friday		
9:00 to 11:00	Commercially available systems: LexA- & Gal4-based systems Bioinformatics: extending your clone *in silico* Using YTH in pharmaceutical screening	
11:00 to 13:00	***Break***	
13:00 to 14:30		split-ubiquitin system, LexA-Gal4 comparison: β-gal assay by $CHCl_3$ overlay Bacterial two-hybrid system: review plates Results and Discussion
14:00 to 17:00	**Questions and Answers;General Discussion** **Screening done: what is next?** (Other techniques for detection of protein-protein interactions)	