

Date	Time	Session	Topic	Lecturer	Location
Monday, August 20, 2012	09:00-16:30		Day 1: Sequencing methods		
	9:00-9:15	Course seminar	Welcome - introducing everyone	AK, JG, (JV)	Biocenter, 4-0-24
	9:15-10:00	Course seminar	Sequencing Technologies	JV	
	10:10-11:00	Course seminar	Mapping of sequencing reads	AK	
	11:10-12:00	Course exercise	RNA-seq, using Galaxy pipeline (Tophat mapping, cufflinks)	JV	
	13:00-15:20	Course seminar/ex	Protein-RNA interactions	JS/CW	
	15:30-16:30	Course seminar	Cancer Genome Browser	SS	
		Social	Optional canal & harbour tour		
Tuesday, August 21, 2012	09:00-16:30		Day 2: Applied RNA structure prediction		
	9:00-9:30	Course seminar	RNA structure intro	JSP	Biocenter, 4-0-24
	9:35-10:20	Course seminar	Single sequence folding	JG	
	10:30-12:00	Exercises	Single sequence folding	all	
	12:00-13:00		Lunch		
	13:00-13:45	Course seminar	Comparative RNA folding	JG/JHH	
	13:55-14:40	Excercises	Comparative RNA folding	all	
	14:50-15:40	Seminar + mini exercises	RNA structure discovery: homology methods	JSP	
	15:45-16:20	Seminar + mini exercises	RNA structure discovery: de novo methods	JSP/JG	
	16:20-16:30		Evaluation of day	all	
		Social	Barbeque (if weather allows)		
Wednesday, August 22, 2012	09:00-16:30		Day 3: miRNA, miRNA targets and small RNA sequencing		
	9:00-9:50	Seminar + mini exercises	miRNA introduction, small miBase exercise included	JV	Biocenter, 4-0-24
	10:00-10:50	Seminar + mini exercises	miRNA targets, smal TScan exercise included	JV	
	11:00-12:00	Course seminar	Viral manipulation of miRNAs	Demian Cazella	
	13:00-13:50	Course seminar	miRNA target site enrichment	AK/ABJ	
	14:00-14:50	Course exercise	Cwords / Sylamer exercise	AK/ABJ	
	15:00-15:50	Course seminar	Experimental RNA structure probing. FragSeq, SHAPE and other methods of probing.	SS/JV	
	18:00-?	Social	Course social dinner (announced in advertisement)		To be announced
Thursday, August 23, 2012	09:00-15:00		Day 4: Antisense Oligonucleotide drugs		
	9:00-9:45	Course seminar	RNA-RNA Interactions	Stefan Seeman	Biocenter, 4-0-24
	10:00-11:00	Exercise	RNA-RNA Interactions	Stefan Seeman	
	11:10-12:00	Course seminar	RNA as a drug target: Overview (advantages, disadvantages, overview of past, present and future attempts to develop RNA targeting drugs)	ML	
	13:00-14:00	Course seminar	Targeting RNA: Biological challenges (chemistry of various oligonucleotides, biodistribution, metabolism, toxicity)	ML	
	14:10-15:00	Course seminar	RNA as a drug target: Informatics challenges (rational oligo design: enriching for specificity, potency and tolerability)	ML	
	14:00-14:50	Course seminar	The world's first microRNA medicine (the development of miravirsen. From the first in vitro screen to Phase 2 trials)	ML	
Friday, August 24, 2012	09:00-15:00		Day 5: Symposium 'The Transcriptome'		Lundbeckfond Auditorium
	International speakers 45 min. presentations.		Confirmed speakers: Art Levin, Sakari Kauppinen, Jørgen Kjems, Demian Carzella, Eduardo Eyras, Marie Öhman.		