

Date	T (KVS)	P (TA)	Topic	When	Where	Assignments	Due
18-sept	x		Intro + What is bioinformatics?	16-18	1.21		
25-sept	x		A primer on genetics	16-18	1.21		
2-oct	x		Sequence analysis	16-18	1.21	reading assignment for 23/10: A tutorial on statistical methods for population association studies	
9-oct		x	A primer on R	16-18	1.21	1) exercise on motif finding; 2) paper on sequencing (e.g., genome data mining, primer on medical genomics); 3) simulation study: computational molecular biology	HW1: 23/10/2012
16-oct		x	Sequence comparison in practice: BLAST and	16-18	1.21	1) exercise on sequence comparison 2) paper on sequencing ; 3) simulation study: changing parameters in sequence comparison software	HW2: 30/10/2012
23-oct	x		Genomewide association analysis	14-16	1.21		
30-oct	x		Whole-Genome Sequencing in Personalized Therapeutics	14-17	1.21	Discussion of papers HW1 + HW2 ; students prepare short 10-15 minutes presentations depending on group sizes	
6-nov							
13-nov		x	Genomewide association analysis in practice	14-16 or 16-18 (check practical website)	1.21	1) exercise on GWA 2) paper on GWA (e.g., potential for revealing individual level information in GWA, GWA and human disease: from trickle to blood; epistasis; missing heritability); 3) simulation study	HW3: 4/12
20-nov	Ingrid		Microarray-analysis: from chip to clinical im	16-18	1.21		feedback on HW1+2
27-nov							
4-déc	Elena		Bioinformatics in practice: GWAs protocol /	14-18	1.21	reading assignment: Discussion paper for class 17/12 (omics integration)	
11-déc	Ronald Stefan	x	Phylogenetic sequence analysis	15-17	1.21	1) exercise on microarray analysis 2) paper on ancestry and phylogeny (e.g., phylogeny for the faint of heart)	HW4: before exam feedback on HW3
17-déc	x	x	Increased complexity: Integrative Analyses Recapitulation	14-17	1.21	Discussion of papers HW3; students prepare short 10-15 minutes presentations depending on group sizes	feedback on exam

<b>Legend</b>	TA: Teaching Assistant TBC: To be confirmed T: Theory P: Practice KVS: K Van Steen
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