

Course Name	Date	Class	Topic
PH20-20	26/02/2014	COURSE PH1+2 (Intro + Genetics)	Intro, setting the pace, homeworks and projects, concepts in molecular biology revisited
		Formation of groups	
UA	24/03/2014	CLASS 1	Setting the pace, class organization, homework organization. Intro in genetic epidemiology
UA	25/03/2014	CLASS 2	Population genetics: basic concepts
PH20-20	26/03/2014	COURSE PH3+4 (GWAs)	Genetic epidemiology; what is it and what is it not? Basic concepts in population genetics
			Assignment 1 (due 23/4)
UA	27/03/2014	CLASS 3	Genetic association studies: basic concepts
UA	28/03/2014	CLASS 4	Genetic association studies: an example for unrelated individuals
UA	31/3/2014	CLASS 5	Genetic association studies: an example for related individuals
UA	1/04/2014	CLASS 6	Traveling a world of interactions: the body as a system
PH20-20	02/04/2014	COURSE PH5+6 (GWAs)	Primer on genetic association studies
UA	4/4/2014	CLASS 7	Genetic epidemiology: Public health or personalized medicine oriented?
			Open discussion via paper reading
PH20-20	23/04/2014	COURSE PH7+8	Group presentations of HW1
		Recap class	Genomewide association studies: theory and practice; promise and limitations
UA	25/4/2014	CLASS 8	Presentation of Project
PH20-20	7/05/2014	COURSE PH9+10 (Incorporating environment + cellular complexity)	The genetic epidemiology of interactions, focus on gene- gene interactions
			Assignment 2 (due 28/5)
PH20-20	14/5/2014 (or 15/5/2014)	COURSE PH11+12 (Incorporating environment + cellular	The genetic epidemiology of interactions, focus on gene- environment interactions

		complexity)	
UA	27/5/2014	EXAM	EXAM
PH20-20	28/5/2014	COURSE PH13+14	Group presentations of HW2
PH20-20	13/6/2014	Recap class EXAM	Adding data and analysis complexity to main effects GWAs EXAM
BIOINF15-15	05/03/2013	COURSE 1+2	Intro, setting pace, epidemiology in R –concepts in epidemiology (finding resources), highlight the variation in available tools such as the FBAT software , R SNPAssoc and GenABEL, PLINK Assignment1: e.g., what are the key properties of these software packages
BIOINF15-15	19/03/2013	Assignments: split up the work and generate one report per group COURSE 3+4	Quality control: genome-wide association studies, confounders, environmental effect modifiers (i.e., quality control of environmental constructs) Assignment 2: Compare quality control measures in PLINK with those available via GenABEL (or R in general), look up the theory behind, report, discuss + when using the same QC-ed data, perform an association study in GenABEL and PLINK (compare the results, are they different or the same and why?)
BIOINF15-15	15/04/2013	COURSE 5+6	Pedigrees or not? (linkage versus association, family-based association tests, families and next generation sequencing) Showcase in class of how FBAT works Assignment 3: Perform a GenABEL analysis and compare with results obtained from FBAT, report and discuss
BIOINF15-15	29/04/2013	COURSE 7+8	Genome-wide association interaction analysis: theory with MB-MDR

			<i>Assignment 4: Perform a gene-gene interaction analysis using GenABEL and interpret your findings (annotate)</i>
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