

Courses in « genetic epidemiology » in 2014-2015

Course Name	Date	Class	Topic
PH20-20	25/02/2015	COURSE PH1+2 (Intro + Genetics) Formation of groups	Chapter 1: Intro, setting the pace, homeworks and projects, Chapter 2: concepts in molecular biology revisited – Life is complex
PH20-20	04/03/2015	COURSE PH3+4 (GWAs)	Chapter 3: Genetic epidemiology; what is it and what is it not? Aggregation and Segregation Assignment 1 (due 25/3) Assignment 2 – available online
NONPH15-15	10/03/2015	SESSION I	Genetic Epi – introduction Assignment 1 on software related to GE (due 21/4)
PH20-20	25/03/2015	COURSE PH5+6 (GWAs)	Chapter 4: Basic concepts of population genetics Primer on genetic association studies Assignment 2 (due 13/5)
UA	27/03/2015	CLASS 1	Setting the pace, class organization, homework organization. Intro in genetic epidemiology Genetic epidemiology: Public health or personalized medicine oriented? Open discussion via paper reading – time permitting
NONPH15-15	31/03/2015	SESSION II	The importance of Quality Control – context specific Assignment 2 on data exploration and QC-ing prior to mapping by association (due 21/4)
PH20-20	01/04/2015	COURSE PH7+8 Recap class	Group presentations of HW1 Genome-wide association studies: theory and practice; promise and limitations
UA	14/04/2015	CLASS 2	From Population Genetics to Genetic association studies – I
UA	15/04/2015	CLASS 3	From Population Genetics to Genetic association studies - II Open discussion via paper reading – time permitting
UA	16/04/2015	CLASS 4	Family-based association studies Doing it yourself – FBAT
UA	17/04/2015	CLASS 5	Genomewide association studies: Interaction studies: Acknowledging life's complexities

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NONPH15-15	21/04/2015	SESSION III	Presentations of HMW1+2 with discussion The role of families in GE Assignment 3 on family-based association analysis (due 19/5)
PH20-20	22/04/2015	COURSE PH9-10	Chapter 4: Population association studies
UA	13/05/2015	CLASS 5	Presentation course assignment – with discussion Assignment refinements: adding levels of complexity
PH20-20	13/05/2014	COURSE PH11+12 (Incorporating environment + cellular complexity)	Chapter 5: A primer on genome-wide association interaction studies
NONPH15-15	19/05/2015		
PH20-20	20/05/2015	COURSE PH13+14 Recap class	Group presentations of HW2 Adding data and analysis complexity to main effects GWAs
NONPH15-15	02/06/2015	Interim session	Possibility to have additional input on practical aspects related to the homework assignment / project
PH20-20	03/06/2015	EXAM	EXAM
NONPH15-15	11/06/2015	ORAL EXAM (optional)	ORAL EXAM (optional)
UA	12/06/2015	CLASS6	Invited speaker: genetic epidemiology in the clinic Preparation to exam: guiding questions
UA	23/06/2015	EXAM	EXAM