

Course title: Genetic epidemiology (2005-8-2)

The course will include: An introduction to study designs, analyses and potential biases in genetic epidemiological studies based on both binary/quantitative phenotypes as well as specific, genetic markers. Gene environment interaction, estimates of heritability and segregation analyses will be included. Also analyses of genetic markers (mutations, gene polymorphisms, haplotypes). Interpretations, limitations, and relevance for public health will be discussed.

The following textbooks will be used:

- Khoury MJ, Beaty TH, Cohen BH. Fundamentals of Genetic Epidemiology. Oxford University Press, 1993 (or a later edition)
- Brown SM. Essentials of Medical Genomics. Wiley-Liss, 2003
- Thomas DC. Statistical Methods in Genetic Epidemiology. Oxford University Press, 2004.
- Khoury MJ, Burke W, Thomson EJ. Genetics and Public Health in the 21st Century. Oxford University Press, 2000.

Target group: Ph.D. students and others with a basic knowledge of genetics and epidemiological methods in general.

Duration: 2 x 3 whole days of lectures. Master classes will be held between the two periods of lectures.

Language: English

ECTS-credits: 4.6

Course leaders: Professor, dr.med. Thorkild I. A. Sørensen (tias@ipm.hosp.dk), Institute of Preventive Medicine, Øster Farimagsgade 5, 1399 København K, and Professor, Dr.Med. Børge G Nordestgaard (BRNO@herlevhosp.kbhamt.dk), Clinical Chemical dept., K.A.S. Herlev.

Lecturers: Professors Duncan C. Thomas, L.A., USA, Jaakko Kaprio, Helsingfors, Finland, Kaare Christensen, SDU, Odense, Børge G Nordestgaard, & Thorkild I. A. Sørensen.

Dates: August 8 to 10 and August 15 to 17, 2005, from 09.00 to 16.00 hrs.
Individual master classes will be held on August 11 to 12, 2005.

Venue: Institute of Preventive Medicine, Øster Farimagsgade 5, 1399 København K

Course fee: No fee for PhD students enrolled at a Danish institution obtaining permission from their supervisor and institution, nor for PhD students from Faculty of Medicine, Lund University. Others: 6,000 DKR.

Secretariat: Pia Lassen, Det Sundhedsvidenskabelige Fakultet, Københavns Universitet, Blegdamsvej 3B, 2200 København N, Tlf.: +45 35 32 70 65, e-mail: pila@adm.ku.dk.

Registration: The application form should be sent to the secretariat before May 16th, 2005 (<http://www.sund.ku.dk/studieInfo/Blanketter/Ph.D/ansogningsskema.pdf>). Ph.D. students will have priority.