



## GENETIC EPIDEMIOLOGY IN THE POSTGENOMIC ERA

Tampere, Finland, 18-21 April, 2006 at Public Health School, Medisiinärinkatu 3 by the University Hospital. <http://www.cancerbiobank.org/>

EU Network of excellence “Cancer Control using Population based Registries and Biobanks” (CCPRB) sponsors a course in molecular epidemiology in Tampere. In addition to the Tampere postgraduate students in public health, about 5 fellowships will be provided for students/scientists from CCPRB laboratories, covering economy travel and accommodation. Applications with a short motivation and CV have to reach the course organizer Kari Hemminki ([k.hemminki@dkfz.de](mailto:k.hemminki@dkfz.de)) by March 10, 2006. The selected candidates will be notified by March 17. Students/scientists from any institution are invited to participate, subject to approval by the course organizer; applications, as above, are accepted on the first-come-first-serve basis until April 7. No financial support is provided but there is no course fee. For cheap accommodation, contact [<hoitokoti@pirkanmaanhoitokoti.fi>](mailto:hoitokoti@pirkanmaanhoitokoti.fi) Internet [www.pirkanmaanhoitokoti.fi](http://www.pirkanmaanhoitokoti.fi)

**CONTENTS:** Lectures and practicals on topics in genetic and molecular epidemiology with a focus on genomic and statistical techniques applicable for common diseases, population genetics and molecular medicine. Concepts of genes and environment in disease causation, tissue/serum banks, large-scale genotyping methods and bioinformatics, family, twin and other population registers. See SCHEME ON NEXT PAGE.

**TEACHERS:** Justo Lorenzo Bermejo (Heidelberg), Johanna Schleutker (Tampere), Tero Hiekkalinna (Helsinki), Kari Majamaa (Oulu), Mika Matikainen (Tampere), Jaakko Kaprio (Helsinki), Matti Lehtinen (Tampere), Kari Hemminki (Heidelberg)

**LITERATURE:** Course literature: Lancet genetic epidemiology series 2005, Vol 366, pp. 941, 1036, 1121, 1223, 1397, 1315, 1484. The participants are assumed have basic knowledge of human biology, DNA and epidemiology, cf. Lancet 366 p. 941.

## Genetic Epidemiology, Tampere, 18 April – 21 April 2006

<i>Time</i>	<i>18 April</i>	<i>19 April</i>	<i>20 April</i>	<i>21 April</i>
<b>9 – 10</b>	Kari Hemminki: Genetic epidemiology 2006	Justo Bermejo Lorenzo: Calculation of G-E parameters	Mika Matikainen: Familial cancer at the clinic	Johanna Schleutker: Prostate cancer genetics
<b>10 – 11</b>	Kari Hemminki: Concepts, aims and resources	Tero Hiekkalinna: Linkage analysis	Jaakko Kaprio: Familial aggregation of disease	Clinical genetics
<b>11 – 12</b>	Justo Bermejo Lorenzo: Genetic epidemiology parameters/data sources			Matti Lehtinen: Biobanks
Lunch break				
<b>13 – 14</b>	Justo Bermejo Lorenzo: Calculation of G-E parameters	Kari Majamaa: Molecular epidemiology of neurological diseases	Jaakko Kaprio: Heritability estimation	Quiz
<b>14 – 15</b>	Johanna Schleutker: Genomics tools/data sources	Molecular tools in population genetics	Kari Hemminki: Genetic epidemiology after 2006	Discussion of results
<b>15 – 16</b>	Visit to molecular biology laboratory (Johanna Schleutker)		Visits to oncology/clinical genetics clinics (Mika Matikainen)	

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