



Nordic Research Seminar on Biobanking

August 26-28 2006, Clinical Research Centre, Malmö, Sweden

Translating Molecular Diagnostics to Health

Sponsored by:

**The Joint Committee of the Nordic Medical Research Councils
Nordiska Samarbetsnämnden för Medicinsk Forskning NOS-M**



**NordForsk Longitudinal Epidemiology Program:
Nordic Biological Specimen Banks Working Group**



**European Union
Sixth Framework Program
CCPRB Network of Excellence
on Biobanking**

The Swedish National Biobank Program



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Background

Disease causality may start very early in life, even at the fetal stage, and the elucidation of preventable causes of disease thus requires longitudinal cohort studies. However, even for common diseases like cancer, such studies require enormously large numbers of subjects and decade-long follow-up times.

In the Nordic countries, there are several major research projects with biological specimen banking, commonly also combined with extensive environmental and clinical phenotyping. Registry linkages with the Nordic Cancer Registries have already defined a very large study base for longitudinal epidemiological studies of causes of cancer with >100.000 prospectively occurring cases.

The research seminar also involves participation from major European and Nordic network of excellence towards standardisation and harmonization of practises in biobanking, health surveys and registry linkages. Efficient spreading of excellence in the form of education on the possibilities of biobank-based research and the current best practise standards in biobanking is a major goal of these networks.

Content

The “Nordic Research Seminar on Biobanking“ is intended to provide an interdisciplinary overview of the current state-of-the-art in the research field of Health Surveys and Biobanking, with particular reference to the unique possibilities that the comprehensive Nordic infrastructure with established registries, biobanks and health surveys provides. The key role of the Nordic front-line development of new molecular tools for molecular analysis of biobank samples will be reviewed. Key examples of successful research exploiting registries, biobanks and health surveys in different disciplines will be exemplified. Another intention is to bring young and senior researchers working in the field of health surveys together for discussion and promoting the establishment of contacts and collaborative Nordic projects in this field.

The seminar is co-ordinated with the European Postgraduate School of Biobank-based Epidemiology, a formalised educational programme that is awarding official DPH (Doctor of Public Health) degrees in Biobanking.

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Programme

August 26

- 08.00-09.45** **Registration and coffee**
- 09.45 – 12.00** **The Nordic registry system**
- 09.45** The Nordic Cancer Registries
*Fröydis Langmark,
The Cancer Registry of Norway*
- 10.15** Overview of the Nordic Registry System, with emphasis
on Multi-Generation Registries
*Anders Ekblom,
Karolinska Institutet*
- 11.00** The Regional Biobank Centers
Joyce Carlson, Lund University
- 11.30** **Lunch**
- 12.30** The Medical Birth Registries
*Elina Hemminki, STAKES,
Helsinki, Finland*
- Health care biobanks**
- 13.15** Cytology and virology biobanks
Joakim Dillner, Lund University
- 13.45** Pathology biobanks
*Monica Nistér, Karolinska
Institute*
- 14.15** **Coffee**
- 14.45** Frozen tissue pathology biobanks
Johan Botling, Uppsala University
- 15.30** Overview on Usefulness of different types of samples
Joyce Carlson, Lund University
- 16.15-18.00** **Presentation by participating students on their own
projects and interests.** About 10 minutes each
- 16.15** **Icelandic Virology Biobank/The Icelandic Maternity
Cohort**
Arthur Löve (Reykjavik, Iceland)
- 16.25** **Maternity Cohort Biobanking of Both Serum and
Blood Clots**
Kristin Andersson and Joakim Dillner (Malmö, Sweden)
- 16.35** **Long-Term Storage Of Serum Samples At -25°C:
Implications For Hormonal Analyses In
Epidemiological Studies**
Katerina Savchuk, Eva Lundin, Marjõ Kaasila, Kjell
Grankvist, Anne Zeleniuch-Jacquotte, Yelena Afanasyeva,
Eero Pukkala, Göran Hallmans, Paolo Toniolo, Pentti
Koskela, Matti Lehtinen, Annekatrin Lukanova (Tampere and
Oulu, Finland)
- 16.45** **Assessing Quality of DNA From Dried Blood Spots**
Malin I. L. Sjöholm, Joakim Dillner and Joyce Carlson
(Malmö, Sweden)
- 16.55** **Birth Order, Family Size And Cancer Risk: Results
From The Swedish Family-Cancer Database**
Andrea Altieri and Kari Hemminki (Heidelberg, Germany and
Stockholm, Sweden)
- 17.10** **Risks For Familial And Contralateral Breast Cancer
Interact Multiplicatively And Cause A High Risk**
Jianguang Ji, Asta Försti, Kari Hemminki (Heidelberg,
Germany and Stockholm, Sweden)

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- 17.20** **Comprehensive Evaluation of Genetic Variation In The IGF1 Gene And Risk Of Prostate Cancer**
Mattias Johansson, James D. Mckay, Pär Stattin, Federico Canzian, Catherine Boillot, Fredrik Wiklund, Hans-Olov Adami, Katarina Bälter, Henrik Grönberg, Rudolf Kaaks (Umeå, Sweden)
- 17.30** **Insulin Resistance Is Inversely Related To Prostate Cancer; A Prospective Study In Northern Sweden**
Tanja Stocks, Annekatrin Lukanova, Sabina Rinaldi, Carine Biessy, Bernt Lindahl, Göran Hallmans, Rudolf Kaaks, Pär Stattin (Umeå, Sweden)
- 17.40** **Geographical Variations In The Human Leukocyte Antigen Distribution, Exposure To Human Papillomavirus Infections and Occurrence Of Cervical Cancer In Finland Over 20 Years**
Felipe A. Castro, Marjo Kaasila, Hannele Sareneva, Kari Pasanen, Eero Pukkala, Matti Lehtinen (Tampere and Oulu, Finland)
- 17.50** **Smoking And Cervical Cancer: A Population-Based Case-Control Study Nested Within A Large Cohort From Nordic Biobanks**
Aline Simen Kapeu and Matti Lehtinen For The CCPRB (Tampere And Oulu, Finland)

August 27 **Health Surveys and Biobanking**

- 08.30** The European Prospective Investigation into Cancer and Nutrition Biobank and Health Survey *Anne Tjønneland, Danish Cancer Society*
- 09.10** The Nordic Twin Registries *Jaakko Kaprio, National Public Health Institute, Helsinki, Finland*
- 09.45** **Coffee**
- 10.10** Icelandic Heart Association Biobank and Health Survey *Vilmundur Gudnasson, Iceland*
- 10.50** The Janus Project *Tom Grimsrud, The Cancer Registry of Norway*
- 11.30** Northern Sweden Health and Disease Study *Göran Hallmans, Umeå University and Annie Lukanova, New York University*
- 12.20** **Lunch**
- 12.20** **Legislation and ethics**
- 13.20** Information and consent with respect for integrity and autonomy in biobank studies *Mats G. Hansson, Uppsala University*
- 14.05** **Technology for Biobank Sample Analyses**
- 14.05** Whole genome scans using functional SNPs *Richard Houlston, Sutton, UK*
- 14.40** **Coffee**
- 15.05** The Network of Excellence on New Molecular tools, with special reference to proximity ligation, and circle to circle amplification methods *Ulf Landegren, Uppsala University*
- 15.40-16.15** The Human Proteome Atlas *Caroline Kampf, Uppsala University*

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August 28

- 08.30** **Abstract presentations by participants About 15 min**
- 08.30** **The Biobanking Approach To Dissecting The Etiology of Type 1 Diabetes**
Åke Lernmark (Malmö, Sweden)
- 08.45** **Estimating The Long Term Storage Effect On Serum Stability In The Janus Serum Bank**
Randi Gislefoss, Tom Grimsrud and Lars Mørkrid (Oslo, Norway)
- 09.00** **Establishing An Overall System For Biobanking And Clinical Research At A Large General Hospital**
Roger Bjugn (Oslo, Norway)
- 09.15** **Biobanking In Microbiology: From Sample Collection to Diagnosis and Research**
Tedeschi R., Bidoli E., Zanussi S., Bortolin M.T, Pratesi C., Marus A., Pin E., D'andrea M., Crepaldi C. & De Paoli P. (Aviano, Italy)
- 09.30** **Use of Archived Biological Material For Evaluation of Cancer Screening Effectiveness. Is Informed Consent Required?: A Belgian Case-Control Study Involving Cytological Reviewing And HPV Testing In Stored Pap Smears Of Screened Controls And Cases With Cervical Cancer**
Marc Arbyn (Brussels, Belgium)
- 09.45** **Coffee**
- 10.15** **Epidemiologically valid and statistically efficient designs of biobank-based research** *Esa Läära, Oulu University*
- 11.00** **Good Biobanking Practise**
Review of the Joint European/Nordic standard operating procedures, manuals and policy documents in the course binder *Joakim Dillner, Lund University*
- 12.00** **Lunch**
- 13.00-17.00** **State-of-the-art examples from past and current biobank and health survey studies**
- 13.00** The Malmö Biobank Consortium *Göran Berglund, Lund University*
- 13.45** Biobanks and health surveys in diabetes studies *Heikki Hyöty, Tampere University, Finland*
- 14.20** **Coffee**
- 14.45** Biobanks in elucidation of infectious causes of cancer *Mads Melbye, State Serum Institute, Denmark*
- 15.20** Biobanks in intervention studies *Matti Lehtinen, National Public Health Institute of Finland*
- 16.05** Biobank-based studies in rheumatology *Anders Ekblom, Karolinska Institutet*
- 16.50** **Concluding remarks**

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Organizing Committee

SWEDEN:

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Department of Laboratory Medicine
Southern Sweden Maternity & Microbiology Biobanks
Professor Joakim Dillner

Department of Internal Medicine
Malmö Preventive Medicine & Malmö Diet and Cancer Biobanks
Professor Göran Berglund

Umeå University

Department of Public Health and Clinical Medicine, Nutritional Research
Northern Sweden Health and Disease Study
Professor Göran Hallmans

DENMARK:

The Danish Cancer Society, Institute of Cancer Epidemiology, Copenhagen, Denmark
Diet, Cancer and Health Biobank
Professor Anne Tjønneland

NORWAY:

The Norwegian Cancer Registry; Oslo, Norway
The Janus Biobank
Director Frøydis Langmark; Section leader Steinar Thoresen; Biobank
Manager Tom Grimsrud

FINLAND:

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The Alpha-tocopherol, Beta-carotene prevention study
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The Finnish Maternity Cohort
Professor Matti Lehtinen

Tampere University

Department of Epidemiology, School of Public Health
Professor Matti Hakama

ICELAND:

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Molecular and Cell Biology Research Laboratory
Professor Helga Ögmundsdóttir

Icelandic Cancer Registry
Managing director Laufey Tryggvadóttir

Landspítali, Reykjavik, Iceland

Icelandic Maternity Cohort
Associate professor Arthur Löve

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Location

The seminar will be held at the Clinical Research Centre, Malmö University Hospital, Malmö, Sweden.



Copenhagen Airport (Kastrup) is the closest airport when flying to Malmö (20 minutes by train). If flying to Malmö airport (Sturup) there is a 35 minutes bus ride to Malmö. Directions from Kastrup airport: Take the commuter train to Malmö Central across the Öresund bridge (cost 60 DKK). It takes about twenty minutes. If flying to Malmö airport/Sturup take the airport bus towards Malmö. Get off at the airport bus stop “Södervärn”, which is at the entrance to Malmö Allmänna Sjukhus.

To reach the hospital: At Malmö Central either take a taxi to Malmö Allmänna Sjukhus, Clinical Research Centre, entrance 72 (about 80 SEK) or take bus number 2, 7, 8 or 35 to Södervärn, which is at the entrance to Malmö Allmänna Sjukhus (cost 15 SEK).

REGISTRATION

Participants must register with anna.olofsson_franzoia@med.lu.se (+46 40 336153).
There is no participation fee.

Students with abstract selected for presentation will also have their accommodation paid by the organisers. When submitting the abstract, please also submit a curriculum vitae including most significant publications (if any) and a brief statement of interest explaining the importance of the seminar for the applicant's own research work.

The deadline for abstract submission is **July 14th 2006**, and selected participants will be notified by end of July 2006.

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