### MONDAY MAY 3

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08.30</td>
<td>Registration &amp; tea/coffee/fruit outside the lecture hall</td>
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<tr>
<td>09.00</td>
<td><strong>Sture Forsén</strong> “Introduction and practical information”</td>
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#### 09.15 SESSION I: The Dynamic Epigenome
- **Stephan Beck** “To be announced”  
- **Dirk Schübeler** “Regulation by repression: DNA methylation and chromatin during cellular differentiation”  
- **Kristian Helin** “The role of Polycomb group proteins and histone demethylases in stem cell differentiation and cancer”  
- **Bryan Turner** “Histone modifications and genomic responses to environmental change”  

**10.45–11.15 Tea/Coffee**

- **Andrea Baccarelli** “Epigenetic Modifications Induced by Air Pollution, Metals, and Persistent Organochlorine Pollutants”  
- **Shuk-mei Ho** “Epigenetic Determination of Environmentally Related Diseases”

**12.45 Lunch**

#### 14.00 SESSION II: Behavioural disorders & addiction
- **Moshe Szyf** “To be announced”  
- **Arturas Petronis** “Epigenomics and Complex Disease”  

**15.30–16.00 Tea/Coffee**

- **John Mathers** “Nutrition, epigenetics and ageing”

**16.45** Discussions on selected topics (for example the possibly persistent epigenetic effects of commonly used drugs.)

### TUESDAY MAY 4

#### 9.00 SESSION III: Epigenetic Determinants
- **Karen Lillycrop** “Effect of early life nutrition on DNA methylation and disease susceptibility”  
- **Emma Whitelaw** “Maternal ethanol exposure alters the epigenome and the phenotype of offspring in a mouse model of fetal alcohol syndrome”

**10.30–11.00 Tea/Coffee**

- **Andrea Baccarelli** “Epigenetic Modifications Induced by Air Pollution, Metals, and Persistent Organochlorine Pollutants”  
- **Shuk-mei Ho** “Epigenetic Determination of Environmentally Related Diseases”

**12.30 Lunch**

#### 13.30 SESSION IV: Transgeneration Effects and Inheritance
- **Susan Ozanne** “Developmental programming of type 2 diabetes”  
- **Michael Skinner** “Epigenetic Transgenerational Actions of Environmental Compounds on Reproduction and Disease”

**15.00–15.30 Tea/Coffee**

- **Susan Lindquist** “The Ultimate Epigenetic Elements: Prions and Proteins—only Inheritance”

**16.15** Concluding general discussion on current trends and important future areas of research in epigenetics. Moderator to be appointed!

**17.30** Closure of the symposium

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### The Symposium Committee

- **Prof. Bryan M Turner**, Chromatin and Gene Expression Group, Institute of Biomedical Research at the University of Birmingham,  
- **Prof. Mattias Höglund**, Clinical genetics/Oncology, Lund University  
- **Assoc. Prof. Karin Broberg**, Occupational & Environmental Medicine, Lund University  
- **Prof. Sture Forsén**, Chair, the Pufendorf Institute, Lund University  
- **Dr. Ulrika Ringdahl**, Immuntechnology, Lund University

The symposium is sponsored by Lund University and the Nobel Institute for Chemistry
Implications of Epigenetics
Accumulated experimental evidence have shown that the epigenetic pattern of the genome in higher organisms, the epigenome, is dynamic and may be influenced by a number of factors, such as for example environmental and psychosocial. Epigenetic traits of an organism may also be carried over to the offspring in at least three generations and possibly longer.

Address
The Lund Symposium will address recent discoveries concerning the basic molecular biology of epigenetic phenomena as well as the influence of environmental factors on behaviour and disease in animals and humans.

Venue
The seminars are arranged by the Pufendorf Institute and will take place in Eden main lecture hall.

Invitation
The Pufendorf Institute would like to encourage all researchers occupied with questions within the fields covered in the Epigenetics Symposium to send in an application. Please submit your name, position, a brief summary of your research interests and contact information to epigenetics@pi.lu.se no later than March 17, 2010.

Final Admission and Registration
The symposium is unfortunately restricted to 150 participants and all applicants will be notified of final admission no later than March 25, 2010. Participants will be requested to pay a registration fee of Skr 300.

Information:
If you have any questions, please contact Sture Forsén at the Pufendorf Institute
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