



BioSys Symposium on  
Human Post-Genomics, Evolution and the Future of Life  
Friday, May 30th, 2008  
The Queen's Hall  
The Royal Library, Slotsholmen  
Søren Kirkegaards Plads 1, DK - 1214 Copenhagen

Computer technology and development of software to handle complex biological data and data integration is revolutionizing today's biological research as well as providing a new foundation for contesting and reconfiguring former understandings of human nature, human history and the future of human life.

At this symposium leading scientists and experts will present and explore the character and tendencies of contemporary transformations in bioinformatics and systems biology, including 1) Human History Written in our Genome, 2) Mapping Genetic Determinants, and 3) The Future of Human Life.

The symposium will be of interest to everyone with an interest in the frontiers of Life Science, and we welcome participants from industry, academia, the media, public institutions as well as curious laypeople.

We encourage you to forward this invitation to colleagues and friends who may wish to attend the symposium.

**Registration**

Attendance is free, but registration is necessary due to catering. To register please visit our web site: [www.biosys.dk](http://www.biosys.dk)

*BioSys is an Innovation Network stimulating interaction between companies and public research institutions working within the fields of Bioinformatics and Systems Biology and raising the general awareness of these technologies in the Danish scientific community. Learn more about us at our website: [www.biosys.dk](http://www.biosys.dk)*



## PROGRAM

(Abstracts available [here](#))

- 8.30 - 9.00 Registration  
9.00 - 9.15 Welcome - Thomas Schou, Head of BioSys  
9.15 - 10.45 **HUMAN HISTORY WRITTEN IN OUR GENOME** (Chair: NN)  
**100 Million years of evolutionary history of the human genome**  
David Haussler, Professor, Director of Center for Biomolecular Science & Engineering, Howard Hughes Medical Institute, University of California Santa Cruz, Santa Cruz
- Haplogroups in tracing human migrations**  
Toomas Kivisild, Lecturer, Leverhulme Centre for Human Evolutionary Studies, University of Cambridge
- Out of Africa: moving on**  
Vincent Macaulay, Senior Lecturer, Department of Statistics, University of Glasgow
- 10.45-11.15 Break
- 11.15-12.45 **The long march of human genes**  
François Balloux, Dr., Department of Infectious Disease Epidemiology, Imperial College London
- Evidence of ancient admixture in multiple human populations**  
Jeffrey D Wall, Assistant professor, Department of Epidemiology & Biostatistics, Institute for Human Genetics, UCSF
- Selection and population sizes in the human lineage inferred from primate genome sequences**  
Mikkel Heide Schierup, Associate Professor, Bioinformatics Research Center, University of Aarhus
- 12.45 - 13.45 Lunch - Standing buffet in the Atrium
- 13.45 - 15.15 **MAPPING GENETIC DETERMINANTS** (Chair: Mikkel Schierup, BiRC University of Aarhus)  
**Genome Wide Association studies bring new responses about diabetes and obesity global epidemics**  
Philippe Froguel, Professor, Chair in Genomic Medicine, Division of Medicine, Imperial College London
- The genetic architecture of human memory**  
Andreas Papassotiropoulos, Professor and Director, Division of Molecular Psychology and Life Sciences Training Facility, Biozentrum, University of Basel, Switzerland
- Disease and Human Variation**  
Søren Brunak, Professor, Director of Centre for Biological Sequence analysis, Technical University of Denmark
- 15.15 - 15.30 Break
- 15.30 - 16.00 **FUTURE DIRECTIONS**  
**Future Issues in Human Genomics and Evolution**  
Pierre Baldi, Professor, School of Information and Computer Sciences, University of California, Irvine (UCI)
- 16.00 - 16.50 **Panel discussion with all speakers (tentative outline)**  
Each speaker in turn gets 2 minutes to brainstorm about what they consider the top challenge(s) in biology and why they are important to the general public. Discussion and commenting is subsequently open for the entire speakers' panel and the audience.
- 16.50 - 17.00 **Concluding remarks**  
17.00 - 18.00 **Drinks & Snacks in the Atrium**