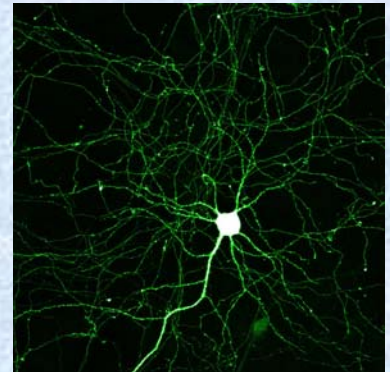




**Speakers:**

- **Mark A. Bedau**  
Reed College, USA  
European School of Molecular Medicine, Italy  
University of Southern Denmark
- **John Dupré**  
University of Exeter, U.K.
- **Peter Godfrey-Smith**  
Harvard University, USA
- **Gerd Müller**  
University of Vienna, Austria
- **Steen Rasmussen**  
University of Southern Denmark
- **Rasmus Grønfeldt Winther**  
University of California, Santa Cruz, USA  
University of Copenhagen, Denmark



## ***Genomes and the Synthesis of Life: Technological, Philosophical, and Cultural Aspects***

Genomics, proteomics, and synthetic biology are advancing at an ever-accelerating pace. Data, technology, and promises issue forth from these efforts. This conference describes current scientific progress in genomics and the synthesis of life, and then examines these advances from a philosophical and cultural point of view. How are bottom-up (reductionist-analytic) and top-down (holistic-synthetic) methodologies used in this research? What role do mathematical models (e.g., nonlinear dynamics, agent-based models, and network theory) play in contemporary biotechnological efforts? Does physics influence biology? How might we change the way that we look upon ourselves, our capacities, and our potentials, if we were able to synthesize life, or fully interpret the genome, or both?

This conference brings together top researchers in the biological sciences and in the philosophy of science, to explore these questions. The first day focuses on philosophical and cultural matters ("philosophy & culture"), the second day on technological progress ("biology"). There is a roundtable discussion at the end of each day.

There is a registration fee of 300 DKK (including lunch) and only a limited number of seats. Register with your name, address and contact info through [phis@ruc.dk](mailto:phis@ruc.dk). Participation will count as a Ph.D.-course for Ph.D.-students.

On 7th and 8th October 2010  
Niels Bohr Institute, Auditorium A  
Blegdamsvej 17, 2100 Copenhagen

This conference is organized by PHIS and CPNSS. PHIS is a Danish national collaboration on Ph.D-education in the fields of philosophy, history of science and history of ideas. Center for the Philosophy of Nature and Science Studies, is at Copenhagen University and involves a group of researchers engaged in the interdisciplinary fields of philosophy of science, and science studies.