

7<sup>th</sup> EMBL/EMBO Science and Society Conference 2006

## GENES, BRAIN / MIND AND BEHAVIOR

### PROGRAMME

**Friday, 3 November**

08:00-09:00 Registration

09:00-09:15            Welcome addresses:  
Frank Gannon, Executive Director, EMBO  
Halldór Stefánsson, Science and Society Programme, EMBL

### Session I: Genes and behavior

Chair: Erik Parens, The Hastings Centre, N.Y.

09:30-10:00        Barry Dickson, IMP, Vienna  
*Genetic analysis of innate behaviours in Drosophila*

10:00-10:30        Ulrike Heberlein, UCSF, USA  
*Drugs, flies and videotape: What can fruit flies teach us about drug addiction?*

10:30-11:00        **Coffee break**

11:00-11:30        Turhan Canli, Stony Brook University, New York  
*Genomic Psychology – An outlook for the next 100 years*

11:30-12:00        Pierre Roubertoux, CNRS-Université de la Méditerranée, Marseille  
*From DNA to the Mind: the meaning of the link*

12:00-13:30        **Lunch break**

### Session II: From genes to brain / mind

Chair: Hannah Monyer, Department of Clinical Neurobiology, University of Heidelberg

13:30-14:00        Wolf Singer, MPI für Hirnforschung, Frankfurt  
*The role of coherence in higher cognitive processes*

14:00-14:30        Jean-Pierre Changeux, Pasteur Institute, Paris  
*Making of the brain: genetic and epigenetic regulations - from molecular biology to consciousness*

14:30-15:00        Isabelle Mansuy, Brain Research Institute, University of Zürich/ETHZ  
*Molecular constraints on learning and memory*

15:00-15:30        Rava A. da Silveira, École Normale Supérieure, Paris  
*Sophisticated Visual Adaptation in the Retina*

- 15:30-16:00 Thomas Metzinger, Johannes Gutenberg-Universität, Mainz  
***From Neuroethics to Consciousness Ethics: The Wider Context***
- 16:00-16:30 **Coffee break**
- 16:30-18:00 **Panel discussion**  
Chair: Nikos Logothetis, MPI for Biological Cybernetics, Tübingen  
Klaus-Peter Lesch, University of Würzburg  
Cornelius Gross, EMBL Monterotondo  
Petra Stoerig, University of Düsseldorf  
Steven Rose, Open University, Milton Keynes
- 18:00-18:20 EMBO Award for communication in the Life Sciences
- 19:00-21:00 **Conference banquet at the EMBL**

**Saturday, 4 November**

**Session III: The mind/body shop: behavioral drugs and new neurotechnologies**

Chair: Rainer Spanagel, Heidelberg University

- 09:00-09:30 Thomas Dierks, Univ. Hospital for Clinical Psychiatry Waldau  
***Neuroimaging techniques: possibilities and limitations with regard to normal and pathological brain function***
- 09:30-10:00 Lars Sundstrom, CSO of Capsant Neurotechnologies, Southampton  
***Drug discovery: Thinking inside the box***
- 10:00-10:30 Michael Kosfeld, University of Zürich  
***Games in the Brain***
- 10:30-11:00 **Coffee break**  
Ilina Singh, BIOS – London School of Economics
- 11:00-11:30 ***Doing Bad and Feeling Good: Stimulant Drugs in Childhood***
- 11:30-12:00 Paul Root Wolpe, University of Pennsylvania  
***Bioethics, Biotechnology, and the Brain***
- 12:00-13:30 **Lunch break**

**Session IV: From ‘genethics’ to ‘neuroethics’?**

Chair: Alexandre Quintanilha, Institute for Molecular and Cell Biology,  
Porto

- 13:30-14:00 Adina Roskies, Dartmouth College, Hanover, U.S  
*Neuroethics beyond genethics*
- 14:00-14:30 Judy Illes, Stanford University, School of Medicine  
*From Genetics to Neuroethics: Is Imaging “Visualizing”  
Human Thought?*
- 14:30-15:00 Erik Parens, The Hastings Centre, N.Y.  
*Three Concerns about the Balkanization of Bioethics*
- 15:00-15:30 Raymond G. DeVries, University of Michigan, Ann Arbor  
*Firing the Neuroethical Imagination*
- 15:30-16:00 Jackie Leach Scully, University of Newcastle  
*The Ship Who Sang: the neuro-machine interface as  
prosthetic, extension, and fantasy*
- 16:00-16:30 **Coffee break**

16:30-18:00 **Panel discussion**  
Chair: Nikolas Rose, BIOS – London School of Economics  
Alison Abbott, Nature, Germany  
Jörg Naumann, Deutsches Hygiene-Museum, Dresden  
Turhan Canli, Stony Brook University, New York  
Alexander Quintanilha, Institute for Molecular and Cell  
Biology, Porto

18:00-18:15 Closing remarks (Iain Mattaj, Director General, EMBL)