

7th 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)