

EMBO Education Workshop, 17-19 May 2007

Programme

Thursday, 17 May

13:30 Registrations in Operon Foyer

14:00 Welcome address: **Andrew Moore**, Science & Society Programme Manager, EMBO

Session I: Systems biology and proteomics

Chair: Andrew Moore, Science & Society Programme Manager, EMBO

14:15 1st Scientific talk: **Les Grivell**, EMBO:
"Systems Biology: top-down, bottom-up or middle-in? New challenges at the interfaces between physics, biology and computation"

14:55 2nd Scientific talk: **Dirk Bumann**, Biozentrum, University of Basel, Switzerland:
"Proteomics – basic research and clinical applications"

15:35 Coffee break

16:05 Panel discussion on ways of covering systems biology and proteomics in the curriculum:

Wolf-Dieter Blass, Gymnasium Farmsen, Hamburg, Germany

Rashpal Chana, Science Learning Centre, Keele University, UK

Marika De Acetis, Fondazione per le Biotecnologie, Torino, Italy

17:45 Special event: **Dean Madden**, National Centre for Biotechnology Education, University of Reading, UK

19:00 Dinner

Friday, 18 May

Session II: Molecular evolution

Chair: Dean Madden, National Centre for Biotechnology Education, University of Reading, UK

09:00 1st Scientific talk: **Wolfgang Enard**, Max-Planck Institute for Evolutionary Anthropology, Leipzig, Germany:
"Human uniqueness and molecular evolution – the chimpanzee perspective"

09:40 2nd Scientific talk: **William Martin**, Institute of Botany, Heinrich-Heine-Universität Düsseldorf, Germany:
"Molecular evolution of plants"

10:20 Group photo followed by coffee break

11:00 Panel discussion on ways of covering molecular evolution in the curriculum:

Elisabetta Gaita, IPSIA E. Fermi, Alessandria, Italy

Angela Hall, Nuffield Curriculum Centre, London, UK

Janneke Verloop, Teaching Dept. of Biology, University of Rotterdam, The Netherlands

12:30 Lunch

Session III: Molecular medicine

Chair: Thomas Wendt, ExploHD, Heidelberg, Germany

13:30 1st Scientific talk: **Matthias Hentze**, EMBL Heidelberg, Germany:
“*From molecular biology to molecular medicine*”

14:10 2nd Scientific talk: **Bernd Wendt**, EMBL Heidelberg, Germany:
“*Rational drug design*”

14:50 Coffee break

15:20 Panel discussion on ways of covering molecular medicine in the curriculum:

Ewa Bartnik, Institute of Genetics and Biotechnology, Warsaw University, Poland
Enrica Favaro, Liceo Scientifico San Giuseppe Rivoli Turin and University of Turin,
Italy

Merja Kuisma, The Teacher Training School of Tampere, Finland

Anat Yarden, Weizmann Institute of Science, Dept. of Science Teaching, Rehovot,
Israel

16:50 Aperitif

17:30 Free evening

Saturday, 19 May

Practical experiments at EMBL and ExploHD

Participants are divided in two groups of 30. One group is taken by bus to EMBL and the other one to ExploHD

08:30 Buses take participants to EMBL and ExploHD

09:00 Practicals

Practical at EMBL/ELLS:

1. Hidden treasures from glass slides: the power of DNA microarrays

2. Malaria, Mosquitoes and Mankind

Practical at Explo-HD:

3. Tropical disease meets modern diagnostics: ELISA

(12:30 Participants at ExploHD board bus to take them to EMBL)

13:00 Buffet lunch in Operon foyer

14:00 Parallel group discussions

15:00 Plenary discussion

16:00 Workshop ends - Bus takes participants to Heidelberg train station