

RESEARCH CONFERENCES

ESF-Wellcome Trust Conference

Humanising Model Organisms to Understand Pathogenesis of Human Disease

Wellcome Trust Genome Campus, Hinxton,
United Kingdom
1-3 May 2007

Chair: **Roland Wolf**, University of Dundee, UK
Co-Chairs: **Steve Brown**, MRC Harwell, UK -
Riccardo Fodde, Erasmus University Medical Centre,
Rotterdam, NL - **Rudi Balling**, Helmholtz-Zentrum für
Infektionsforschung Braunschweig, DE - **Nick Hastie**,
MRC Edinburgh, UK & **Nadia Rosenthal**, EMBL
Monterotondo Scalo, IT

www.esf.org/conferences/07207



Final Programme

Tuesday 1 May

17.00 Registration at the ESF-WT desk
18.00-19.00 Dinner

Session 1: Drug Development

Chair: **Roland Wolf**, University of Dundee, UK

19.00-19.30 **Frank Gonzalez**
National Cancer Institute, Bethesda, US
P450 and nuclear receptor humanized mice

19.30-20.00 **Roland Wolf**
University of Dundee, UK
Humanised models for drug metabolism: applications in drug discovery and development

20.00-20.15 **Colin Henderson**
University of Dundee, UK
Hepatic cythochrome P450 reductase null mouse & drug development

Wednesday 2 May

Session 2: Cardiovascular/Heart Disease

Chair: **Nadia Rosenthal**, EMBL Monterotondo Scalo, IT

09.00-09.30 **Ludwig Neyses**
University of Manchester, UK
The systems biology of the sarcolemmal calcium pump – an approach to identifying a novel drug target

09.30-10.00 **Shoumo Bhattacharya**
Wellcome Trust Centre for Human Genetics, UK
Analysing mouse developmental malformations using high-throughput magnetic resonance imaging

10.00-10.15 **Elizabeth Cartwright**
University of Manchester, UK
Tba

10.15-10.45 Coffee Break

Session 3: Metabolic Disease

Chair: **Rudi Balling**, Helmholtz-Zentrum für Infektionsforschung Braunschweig, DE

10.45-11.15 **Roger Cox**
Medical Research Council, Harwell, UK
Mouse models of type 2 diabetes and diabetic complications

11.15-11.45

Howard Thomas

Imperial College London, UK

*Development of Models of Alcohol and Obesity Related Liver Disease by
ENU Mutagenesis*

Session 4: Infectious Disease/immunology

Chair: Rudi Balling, Helmholtz-Zentrum für Infektionsforschung Braunschweig, DE

11.45-12.15

Leonard Shultz

The Jackson Laboratory, Bar Harbor, US

Humanized SCID Mice in Translational Biomedical Research

12.15-12.45

Rudi Balling

Helmholtz-Zentrum für Infektionsforschung Braunschweig, DE

Tba

12.45-13.15

Sjef Verbeek

Leiden University Medical Center, NL

Tba

13.30-14.30

Lunch

Session 5: Neuromuscular & Neurodegenerative Diseases

Chair: Steve Brown, Medical Research Council, Harwell, UK

14.30-15.00

Nadia Rosenthal

EMBL Monterotondo Scalo, IT

Tba

15.00-15.30

David Rubinsztein

Cambridge Institute for Medical Research, UK

Codon reiteration diseases - from biology to therapeutic strategies

15.30-16.00

Frank Walsh

Wyeth Pharmaceuticals, Collegeville, US

Developing a Cure for Alzheimer's Disease

16.00-16.15

Janet Davies

Cambridge Institute for Medical Research, UK

*Oculopharyngeal Muscular Dystrophy: from pathology to therapeutic
strategies for an aggregate-associated disorder*

16.15-16.45

Coffee Break

16.45-17.00

Peter Hohenstein

MRC Human Genetics Unit, Edinburgh, UK

*Mimicking the Wt1 and beta-catenin genetic aberrations from human
Wilms' tumors in mouse models.*

17.00-17.15

Monica Hollstein

University of Leeds, UK

*Mouse models with humanized p53 tumour suppressor gene sequences as
a discovery tool in cancer pathogenesis*

19.00

Dinner

Thursday 3 May

Session 6: Future Directions

Chair: Nick Hastie, MRC Edinburgh, UK - **Co-Chair:** Rudi Balling, Helmholtz-Zentrum für Infektionsforschung Braunschweig, DE

- 09.00-09.30 **Allan Bradley**
Wellcome Trust Sanger Institute, Hinxton, UK
Conclusions
- 09.30-10.00 Plenary Discussion

Session 7: Cancer

Chair: Riccardo Fodde, Erasmus University Medical Centre, Rotterdam, NL

- 10.00-10.30 **Neal Copeland**
Institute of Molecular & Cell Biology, Singapore, SG
Mouse genetic screens for leukemia stem cell maintenance genes
- 10.30-11.00 **Nancy Jenkins**
Institute of Molecular & Cell Biology, Singapore, SG
Harnessing transposons for cancer gene discovery
- 11.00-11.30 Coffee Break
- 11.30-12.00 **Riccardo Fodde**
Erasmus University Medical Centre, Rotterdam, NL
Mouse models for intestinal and mammary cancer stemness
- 12.00-12.30 **Kent Hunter**
NIH, Bethesda, US
Inherited susceptibility to tumor progression and metastasis
- 12.30-12.45 **Nigel Crawford**
NIH, US
Tba
- 12.45-13.45 Lunch

Session 8: Neuro-behavioural Disease

Chair: Nick Hastie, MRC Edinburgh, UK

- 13.45-14.15 **Elizabeth Fisher**
University College London, UK
An aneuploid mouse with a human chromosome modelling Down syndrome
- 14.15-14.45 **David Porteous**
University of Edinburgh, UK
Modelling Major Mental Illness: the DISC1 phenotype in mouse and man
- 14.45-15.15 **Andrew Smith**
Institute for Stem Cell Research, UK
Tba
- 15.15-15.30 **Victor Tybulewicz**
MRC-National Institute for Medical Research, UK
Tba

Abstracts, Posters & Short Oral Presentations

There will be no short talks other than those listed in the programme. All abstracts are accepted as posters. Posters will be displayed for the whole duration of the conference.