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COMPARATIVE AND FUNCTIONAL GENOMICS (BITS) WORKSHOP

27-30 October 2005

Wellcome Trust Conference Centre, Wellcome Trust Genome Campus, Hinxton, Cambridgeshire, UK

This meeting is part of the Wellcome Trust's Conference, Meetings and Courses Programme at Hinxton and is part-sponsored by the Wellcome Trust and the US Department of Energy.

The aim of this meeting is to bring together scientists from around the world with a broad spectrum of interests and expertise in genomics and post-genomic science. It will have workshop format and limited participant numbers, providing an ideal forum for learning more about cutting-edge developments in genome science and the opportunity to discuss these further with the speakers.

Registration for this conference is now closed.

Topics to be covered will include:

Genomic sequence analysis

Human/mouse comparative genomic analysis

Comparative mapping and genome sequence analysis in other vertebrates

Regulatory sequence identification and functional analysis

Cancer Genomics

RNA analysis

cDNA resources

RNA structure, editing and alternative splicing

Non-coding RNAs, sno and micro-RNA

High throughput technologies RNA expression analysis

Protein analysis

Large-scale production and use of recombinant proteins

Structure analysis

Protein localization and sorting

Protein modification and degradation

High throughput technologies for protein expression analysis

Single cell analysis

From genotype to phenotype: model organisms

Expression, RNAi, and mutagenesis studies

Analysis of molecular interactions, pathways and networks

Integrating genetics and computational approaches to pathway analysis

Expression analysis and databases

Data analysis, interpretation, and future directions

Molecular evolution

Genome structure and evolution

Protein families and domains

Intron structure and function

Molecular evolution of anatomical structures

Programme planning committee

Alvis Brazma, EMBL-EBI, Hinxton, Cambridge, UK
Tom Freeman, RFCGR, Hinxton, Cambridge, UK
Bernhard Korn, German Cancer Research Centre, Heidelberg, Germany
Katheleen Gardiner, Eleanor Roosevelt Institute, Denver, CO, USA
Osamu Ohara, Kazus DNA Research Institute, Kisaruzu, Japan
Sherman Weissman, Yale University, New Haven, CT, USA
Thomas Werner, Genomatix Software GmbH, Munich, Germany
Martin Ringwald, The Jackson Laboratory, Bar Harbor, ME, USA
Geoffrey Hicks, University of Manitoba, Winnipeg, Canada

Confirmed speakers

Adam Amsterdam, Massachusetts Institute of Technology, Cambridge, MA, USA
"Insertional mutagenesis in zebrafish: genes for development, genes for disease"

Tom Blumenthal, University of Colorado School of Medicine, Denver, CO, USA
"The C. elegans model: 3' splice site recognition, trans-splicing and operons"

Juergen Bode, GBF Braunschweig, Germany
"Enhanceosome formation over the interferon-beta promoter underlies a remote-control mechanism mediated by YY1 and YY2"

Michael Boutros, German Cancer Research Center, Heidelberg, Germany
"Genome-wide Approaches to Dissect Cellular Signaling by RNAi"

Alvis Brazma, EMBL-EBI, Hinxton, Cambridge, UK
"Modelling gene networks"

Steven Brenner, University of California, Berkeley, CA, USA
"Reliable protein function prediction by Bayesian phylogenomics"

Thomas Cremer, Ludwig-Maximilians-University, Munich, Germany
"Principles of higher order chromatin arrangements"

Eli Eisenberg, School of Physics and Astronomy, Tel-Aviv University, Israel
"RNA editing level in the mouse is determined by its genomic repeat repertoire"

Greg Elgar, HGMP-RC, Hinxton, Cambridge, UK
No abstract submitted

Andrew Frazer, Wellcome Trust Sanger Institute, Cambridge, UK
No abstract submitted

Katheleen Gardiner, University of Denver, Denver, CO, USA
"Variation in adenosine-to-inosine editing patterns of the serotonin 5HT2C receptor"

Tom Gingeras, Affymetrix Inc., Santa Clara, CA, USA
"Transcripts of Unknown Function in Eukaryotic Cells: Lesions Forgotten and Re-Learned"

Seth Grant, Wellcome Trust Sanger Institute, Cambridge, UK
"Genetic, proteomic and bioinformatic studies of the synapse"

Geoffrey Hicks, University of Manitoba, Winnipeg, Canada
"NorCOMM, High Throughput Mammalian Functional Analysis for the Discovery of Novel Determinants of Human Disease"

Winston Hide, University of Western Cape, Bellville, South Africa
"Comparing Mouse to Man: The Next Step in Understanding the Regulation of Development and Cancer in Mammals"

John Hogenesch, The Genomics Institute of the Novartis Research Foundation, San Diego, CA,

USA

"Cell based screening approaches in the annotation of mammalian gene function"

Andreas Horlein, German Cancer Research Centre, Heidelberg, Germany

Wolfgang Huber, EMBL-EBI Hinxton, Cambridge, UK

"Analysis methods for high-density transcript profiling tiling microarrays"

Ravi Iyengar, Mount Sinai School of Medicine, New York, NY, USA

"Computational Characterization of Cellular regulatory Networks"

Peter Karp, SRI International, Menlo Park, CA, USA

"Comparative Genomics Analysis of Biological Networks"

Christian Maercker, University of Applied Sciences, Mannheim, Germany

"From transcriptomics to cell-based assays: Functional analysis identifies beta-catenin, SMC3 and alpha-actinin as potential transcriptional regulators as well as structural components of extracellular matrix remodeling in left ventricular hypertrophy"

John McCafferty, Wellcome Trust Sanger Institute, Cambridge, UK

"Developing an Atlas of protein expression, using recombinant antibodies and tissue microarrays"

Osamu Ohara, Kazus DNA Research Institute, Kisarazu, Japan

"Kazusa Mammalian cDNA Resources: The Current Status and Its Extension toward Development of new Gene/Protein Functional Analysis Platforms"

Graziano Pesole, University of Milan, Milan, Italy

"Identification of novel genes and gene isoforms in the human genome"

Martin Ringwald, The Jackson Laboratory, Bar Harbor, ME, USA

"The Gene Expression Database (GXD): Integrated Access to Expression Information from the Laboratory Mouse"

Frank Schnutgen, University of Frankfurt Medical School, Frankfurt, Germany

"EUCOMM: The European Conditional Mouse Mutagenesis Project"

Stephan Stamm, University of Erlangen, Erlangen, Germany

"Regulation of alternative splicing through Protein Phosphatase1"

Markus Templin, University of Tuebingen, Reutlingen, Germany

"Making it small: Microarrays for multiplexed Protein Analysis"

Marc Vidal, Harvard Medical School, Boston, MA, USA

"Interactome Networks"

Sherman Weissman, Yale University, New Haven, CT, USA

"Genomic Scale Analyses and Hematopoietic Model Systems"

Thomas Werner, Genomatix Software GmbH, Munich, Germany

"Identification of novel genes belonging to a defined functional context in a genome-wide search based"

Kevin White, Yale University, New Haven, CT, USA

"Integrative Genomic Analysis: From fly biology to human disease"

Stefan Wiemann, German Cancer Research Centre, Heidelberg, Germany

"From ORFeome to Biology: Identification of Cancer Relevant Modulators of the Cell Cycle"

Accommodation

On-site accommodation is limited and booked on a first come, first served basis. A choice of

single occupancy or discounted shared occupancy housing is available on site. Once all on-site accommodation has been allocated, delegates requesting accommodation will be advised to make their own arrangements in Cambridge.

Pricing

Delegate type	Full registration including housing (single en suite) *	Full registration including housing (sharing double or twin en suite) *	Registration excluding housing **
Commercial	£630	£555	£440
Academic/Charity	£480	£405	£290

* Full registration package includes use of high-specification conference facilities, programme and abstract book, food, on-site housing, parking, conference banquet, etc.

** Registration excluding housing includes all of the above except for residential accommodation. Alternative local hotel and housing options can be provided on request.

Information regarding travel to the Genome Campus can be found at the Wellcome Trust Conference Centre website.

Programme

Thursday 27 October

15.30–16.30: Registration in the Conference Centre Foyer

Francis Crick Auditorium

16.30–18.00: Session I, Chair - Katherine Gardiner

16.30–16.40: Introduction to the Meeting by Katherine Gardiner

16.40–17.05: Eli Eisenberg

17.05–17.30: Tom Blumenthal

17.30–17.55: Juergen Bode

17.55–18.20: Stefan Stamm

18.30–19.00: Pre-dinner drinks, served in the Hall Foyer

19.00–20.30: Dinner, served in the Hall Restaurant

18.30–23.00: Hall Bar open – cash bar

Friday 28 October

07.30–08.30: Breakfast, served in the Hall Restaurant

Francis Crick Auditorium

09.00–12.30: Session II, Chair - Geoffrey Hicks

09.00–09.25: Andreas Hörlein

09.25–09.50: Steven Brenner

09.50–10.15: Osamu Ohara

10.15–10.45: Morning coffee, served in the Conference Centre Foyer

Francis Crick Auditorium

10.45–12.30: Session III, Chair - Andreas Hörlein

10.45–11.10: Alvis Brazma

11.10–11.35: Thomas Cremer

11.35–12.00: Greg Elgar

12.00–12.25: Thomas Werner

12.30–14.00: Lunch, served in the Hall Restaurant

14.00–15.15: Session IV, Chair - Tom Freeman

14.00–14.25: Andrew Frazer

14.25–14.50: Kathleen Gardiner

14.50–15.15: Kevin White

15.15–15.40: Afternoon tea, served in the Conference Centre Foyer

15.40–17.30: Session V, Chair - Tom Freeman

15.40–16.05: Tom Gingeras

16.05–16.30: Seth Grant

16.30–16.55: Geoffrey Hicks

16.55–17.20: Stefan Wiemann

17.20–17.30: Discussion

17.30–18.30: There will be no formal poster session although delegates are welcome to view any displayed posters

Pre-dinner drinks in the Cloisters

18.30–20.30: Dinner, served in the Hall Restaurant

18.30–23.00: Hall Bar open – cash bar

Saturday 29 October

07.30–08.30: Breakfast, served in the Hall Restaurant

Francis Crick Auditorium

09.00–10.15: Session VI, Chair - Alvis Brazma

09.00–09.25: John Hogenesch

09.25–09.50: Frank Schnütgen

09.50–10.15: Ravi Iyengar

10.15–10.45: Morning coffee, served in the Conference Centre Foyer

Francis Crick Auditorium

10.45–12.30: Session VII, Chair - Martin Ringwald

10.45–11.10: Marc Vidal

11.10–11.35: Winston Hide

11.35–12.00: Christian Maercker

12.00–12.25: Peter Karp

12.30–14.00: Lunch, served in the Hall Restaurant

14.00–18.30: Session VIII, Chair - Sherman Weissman

14.00–14.25: John McCafferty

14.25–14.50: Michael Boutros

14.50–15.15: Graziano Pesole

15.15–15.40: Wolfgang Huber

15.40–16.00: Afternoon tea, served in the Conference Centre Foyer

16.00–17.40: Session IX, Chair - John Hogenesch

16.00–16.25: Martin Ringwald

16.25–16.50: Markus Templin

16.50–17.15: Sherman Weissman

17.15–17.40: Adam Amsterdam

17.40–18.30: There will be no formal poster session although delegates are welcome to view any displayed posters

Pre-dinner drinks in the Cloisters

18.30–20.30: Conference dinner, served in the Hall Restaurant

18.30–23.00: Hall Bar open – cash bar

Sunday 30 October

07.30–08.30: Breakfast, served in the Hall Restaurant

Check out

09.00: Coach departs for Stansted and Heathrow Airports

09.00: Coach departs for Cambridge Train Station and city centre

Contact information

Wellcome Trust Meetings Programme

Wellcome Trust Conference Centre

Wellcome Trust Genome Campus

Hinxton

Cambridgeshire CB10 1RQ

T +44 (0)1223 495000

F +44 (0)1223 495023

E wtmeetings@wtconference.org.uk

Venue website: Wellcome Trust Conference Centre