



# **GENOMES TO SYSTEMS CONFERENCE 2008**

**17-19 March 2008**

Manchester Central Convention Complex

THE LATEST POST-GENOME DEVELOPMENTS • THE LATEST POST-GENOME DEVELOPMENTS • THE LATEST POST-GENOME DEVE

## **DELEGATE INFORMATION**

**Conference dates: 17 – 19 March 2008**

**Exhibition dates: 18 – 19 March 2008**

**Location :** **Manchester Central Convention Centre**  
Petersfield  
Manchester  
M2 3GX



The  
**Consortium** for  
Post-Genome Science

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Thank you for registering for Genomes to Systems Conference 2008. Detailed below is some useful information about the event which will help you get the most out of the day.

### The Conference Team

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### Venue

Manchester Central Convention Centre  
Petersfield  
Manchester  
M2 3GX

[www.manchestercentral.co.uk](http://www.manchestercentral.co.uk)

On arrival please go to the registration desk which is on the street level of the Exchange Building

If you have any questions, staff will be available to assist you.

### Timings

**Day 1** - Registration will begin on Monday 17<sup>th</sup> March at 12.30hrs; refreshments will be served in the **Upper Foyer**. The programme will start with the opening of the conference at 13.30hrs in the Exchange Auditorium

There will be 3 parallel sessions running throughout the afternoon, ending with the plenary session at 18.00hrs.

**Day 2** - Will start at 09.00hrs with a plenary session again in the Exchange Auditorium. For more information please see the conference programme.

Tea and coffee will be served in the **Upper Foyer** at 10.00hrs after which there will be a further set of parallel sessions. A buffet lunch will be provided for each delegate, this is included in your registration fee and will be served in the **Exchange Hall** to coincide with the opening of the Exhibition at 12.30hrs.

The programme finishes with a Plenary Session in the Exchange Auditorium at 17.30hrs. This is followed by a networking drinks reception until 20.00hrs.

**Day 3** – the programme continues, please see overleaf for the current programme, for the most up-to-date programme please go to [www.genomestosystems.org](http://www.genomestosystems.org).

## **Changes to the programme**

Please be aware that changes have been made to the programme since it was first put together.

## **Speakers**

A number of changes and replacements have been made to the speaker list for the event. Please refer to the programme in this document for the latest record of confirmed speakers.

## **Posters**

There will now be only one poster session during the conference. This will be held in the exhibition hall on Tuesday 18th March. Please refer to the programme for times for all sessions.

## **Network evening**

The network evening will be held on 18<sup>th</sup> March, after the conference sessions finish. As well as drinks and a chance to continue conversations there will be an opportunity to listen to an informal talk – “*Space Travel & Genomics in Space*” by Larry DeLucas. Please see the programme for further details.

## PROGRAMME

Monday, 17th March 2008

12.30 Refreshments and Registration

13.35 Nobel lecture - Robert Huber (Martinsried & Cardiff) (*Exchange Auditorium*)  
*Proteases & their regulation, from structures to mechanisms & application*

### PARALLEL AFTERNOON SESSIONS

15.00 Session 1	15.00 Session 2	15.00 Session 3
<p><b><i>Exchange Auditorium</i></b> <b><u>Disease Proteomics</u></b> (Organised by Rob Beynon)</p> <p><b>Sam Hanash</b> (Seattle) <i>Innovative strategies for fast-tracking cancer biomarker development</i></p> <p><b>Ruedi Aebersold</b> (ETH Zurich) <i>Proteomics &amp; systems biology</i></p> <p><b>Mike Gillette</b> (Broad, MIT) <i>Proteomic approaches to biomarker discovery in disease</i></p> <p><b>Walter Kolch</b> (Glasgow) <i>Proteomic biomarker discovery</i></p>	<p><b><i>Charter 3</i></b> <b><u>Metabolic Markers of Disease</u></b> (Organised by Roy Goodacre)</p> <p><b>John Griffiths</b> (Cambridge) <i>NMR-based metabolomics for profiling oncology</i></p> <p><b>Matej Orešič</b> (Finland) <i>Functional characterization of drug response &amp; safety biomarkers in cardiovascular disease</i></p> <p><b>Jules Griffin</b> (Cambridge) <i>Metabolomics of diabetes</i></p> <p><b>John Haselden</b> (GSK, Herts) <i>Metabolomics in the pharmaceutical industry</i></p>	<p><b><i>Charter 2</i></b> <b><u>Deep Mining of Genomes</u></b> (Organised by Andy Cossins &amp; Greg Elgar)</p> <p><b>Tom Gingeras</b> (Affymetrix) <i>Genome-wide transcriptional mapping of functional elements &amp; regulatory strategies</i></p> <p><b>Greg Elgar</b> (QMUL) <i>Functional analysis of highly conserved, non-coding DNA</i></p> <p><b>Manolis Dermitzakis</b> (Sanger) <i>Causes of regulatory variation in the human genome</i></p> <p><b>Sam Griffiths-Jones</b> (Manchester) <i>Genomic analysis of microRNA transcription</i></p>

17.00 Refreshments

18.00 Plenary lecture - John Mattick (Brisbane) (*Exchange Auditorium*)  
*The eukaryotic genome as an RNA machine*

**PROGRAMME**  
**Tuesday, 18th March 2008**

**PARALLEL MORNING SESSIONS**

**09.00 Plenary lecture – Luis Serrano ( Barcelona) (*Exchange Auditorium*)**  
*Evolvability & hierarchy in rewired bacterial gene networks*

**10.00 Refreshments**

10.30 Session 1	10.30 Session 2	10.30 Session 3
<p style="text-align: center;"><b><i>Exchange Auditorium</i></b>  <b><u>Systems Biology- Computational Environments</u></b>  <i>(Organised by Douglas Kell &amp; Pedro Mendes)</i></p> <p style="text-align: center;"><b>Mike Hucka</b>            (Caltech, Pasadena)  <i>SBML: Present status &amp; ongoing efforts for extensions</i></p> <p style="text-align: center;"><b>Nicolas Le Novère</b>            (EBI, Hinxton)  <i>Principled annotation of quantitative models in Systems Biology</i></p> <p style="text-align: center;"><b>Ursula Kummer</b>            (Heidelberg)  <i>COPASI, a modelling environment for simulation &amp; identification of biochemical processes</i></p> <p style="text-align: center;"><b>Hiroaki Kitano</b>            (SBI, Tokyo)  <i>SBGN: the Systems Biology graphical notation</i></p>	<p style="text-align: center;"><b><i>Charter 3</i></b>  <b><u>Single Molecule Imaging for Analysis of Biological Processes</u></b>  <i>(Organised by Mike White)</i></p> <p style="text-align: center;"><b>Gene-Wei Li</b>            (Harvard)  <i>Probing Transcription Factor Dynamics at the Single Molecule Level in a Living Cell</i></p> <p style="text-align: center;"><b>Brahim Lounis</b>            (Bordeaux)  <i>Optical detection of small absorbing nano-objects</i></p> <p style="text-align: center;"><b>David Klenerman</b>            (Cambridge)  <i>Single molecules on living cells</i></p> <p style="text-align: center;"><b>Ruben Gonzalez</b>            (Columbia, NY)  <i>Coupling of ribosome and tRNA dynamics during translation elongation</i></p>	<p style="text-align: center;"><b><i>Charter 2</i></b>  <b><u>From Structure to Biology</u></b>  <i>(Organised by Samar Hasnain)</i></p> <p style="text-align: center;"><b>Larry DeLucas</b>            (Birmingham, AL)  <i>Novel Expression &amp; Crystallization Technologies for Membrane Protein Structural Genomics</i></p> <p style="text-align: center;"><b>James Naismith</b>            (St. Andrews)  <i>Structural proteomics at the SSPF: targeting disease, unravelling mechanism &amp; probing DNA recognition</i></p> <p style="text-align: center;"><b>Stephen Cusack</b>            (EMBL, Grenoble)  <i>New insights into the influenza virus polymerase from structural studies</i></p> <p style="text-align: center;"><b>Ian Wilson</b>            (Scripps)  <i>Structural genomics &amp; its impact in exploration of the protein universe</i></p>

**10.30 Technology Showcase: Thermo Fisher Scientific (*Exchange Room 4*)**  
*FAIMS for Proteomics*

**10.30 Technology Showcase: Roche Diagnostics (*Exchange Room 2*)**  
*The Genome Sequencer FLX System from Roche - Longer reads for more applications*

**12.30 Lunch in Exhibition Hall**

**13.00-13.45 EBI Workshop (*Charter 3*)**  
*Browsing genomes with Ensembl – Bert Overduin*  
*ArrayExpress: a public repository for microarray data – Gabriella Rustici*

**PARALLEL AFTERNOON SESSIONS - Tuesday**

14.00 Session 1	14.00 Session 2	14.00 Session 3
<p><b><i>Exchange Auditorium</i></b>  <b><u>Emerging Strategies for Global Proteomics</u></b>  <i>(Organised by Simon Gaskell)</i></p> <p><b>Anne Dell</b>            (ICL)  <i>Towards high throughput glycomics &amp; glycoproteomics</i></p> <p><b>Rob Beynon</b>            (Liverpool)  <i>Proteomics at the intercept – convergence of quantification &amp; simplification strategies</i></p> <p><b>Blagoy Blagoev</b>            (Denmark)  <i>Quantitative proteomics to study global cell signalling</i></p> <p><b>Simon Hubbard</b>            (Manchester)  <i>Improved informatics for proteomics</i></p>	<p><b><i>Charter 3</i></b>  <b><u>Metagenomics Approaches to Biodiversity &amp; Systems Ecology</u></b>  <i>(Organised by Ian Joint &amp; Neil Hall)</i></p> <p><b>John Heidelberg</b>            (USC)  <i>Metagenomics of extreme environments: hot spring microbial mats</i></p> <p><b>Jed Fuhrman</b>            (USC)  <i>Combining marine metagenomics and spatial/temporal patterns to infer system function</i></p> <p><b>Ian Joint</b>            (PML, Plymouth)  <i>Marine microbial metagenomics &amp; biogeochemical cycles</i></p> <p><b>Francisco Rodriguez-Valera</b>            (Alicante)  <i>Population genomics through metagenomics, brines &amp; other salty habitats</i></p>	<p><b><i>Charter 2</i></b>  <b><u>Facts from the Flood: Text Mining for Biomedicine</u></b>  <i>(Organised by Sophia Ananiadou)</i></p> <p><b>Alfonso Valencia</b>            (CNB, Madrid)  <i>A biological perspective of text mining based on the BioCreative experience</i></p> <p><b>Lynette Hirschman</b>            (MITRE)  <i>Building biological databases: where text mining can help</i></p> <p><b>Jun'ichi Tsujii</b>            (University of Tokyo &amp; Manchester)  <i>Information extraction: linking text with pathways</i></p> <p><b>Andrey Rzhetsky</b>            (Chicago)  <i>Text-mining: a tool for understanding human disease</i></p>

**14.00 Technology Showcase: Agilent Technologies UK (*Exchange Room 2/3*)**  
*Solution for Genomics, Proteomics, Metabolomics & Bioinformatics*

**16.00 Poster Session + Refreshments**

**17.45 Plenary lecture - Ron Breaker (Yale) (*Exchange Auditorium*)**  
*Gene control by metabolite-sensing riboswitches*

**18.45 Network Evening – join us for drinks**

**19.30 Informal Talk – “Space Travel & Genomics in Space” by Larry DeLucas**

**PROGRAMME**  
**Wednesday, 19th March 2008**

**PARALLEL MORNING SESSIONS**

**9.00 Plenary lecture - James Ferrell (Stanford) (*Exchange Auditorium*)**  
*Systems-level properties of the mitotic oscillator*

**10.00 Refreshments**

10.30 Session 1	10.30 Session 2	10.30 Session 3
<p style="text-align: center;"><i>Exchange Auditorium</i></p> <p><b><u>Systems Biology in Time: Dynamic Cellular Processes</u></b> (<i>Organised by Mike White &amp; Hans Westerhoff</i>)</p> <p style="text-align: center;"><b>Mike White</b> (Liverpool) <i>Temporal &amp; spatial information encoding by the NF-<math>\kappa</math>B system</i></p> <p style="text-align: center;"><b>Olivier Pourquié</b> (Kansas City) <i>Periodic patterns in embryonic development: the vertebrate segmentation clock</i></p> <p style="text-align: center;"><b>Andrew Millar</b> (Edinburgh) <i>Unwinding the biological clock</i></p> <p style="text-align: center;"><b>Béla Novák</b> (Oxford) <i>Systems Biology of the cell cycle</i></p>	<p style="text-align: center;"><i>Charter 3</i></p> <p><b><u>Chemical Genomics: Small Molecules with Large Effects</u></b> (<i>Organised by Jason Micklefield</i>)</p> <p style="text-align: center;"><b>Craig Crews</b> (Yale) <i>Chemical genetics: probing cell biology with natural products</i></p> <p style="text-align: center;"><b>Mike Ferguson</b> (Dundee) <i>Targeting glycoprotein synthesis in African trypanosomes</i></p> <p style="text-align: center;"><b>Matthew Bogyo</b> (Stanford) <i>Using small molecules to globally map protease function</i></p> <p style="text-align: center;"><b>Nick Westwood</b> (St. Andrews) <i>The search for new chemical tools of relevance to cancer biology &amp; parasitology</i></p>	<p style="text-align: center;"><i>Charter 2</i></p> <p><b><u>Pharmacogenomics</u></b> (<i>Organised by Munir Pirmohamed &amp; Bill Ollier</i>)</p> <p style="text-align: center;"><b>Sanjay Sisodiya</b> (UCL) <i>Epilepsy genomics &amp; pharmacogenomics</i></p> <p style="text-align: center;"><b>Mia Wadelius</b> (Uppsala) <i>Warfarin pharmacogenomics: a candidate for personalised dosing?</i></p> <p style="text-align: center;"><b>Ann Daly</b> (Newcastle) <i>Pharmacogenomic studies on drug-induced liver injury</i></p> <p style="text-align: center;"><b>Caroline Lee</b> (Singapore) <i>Identifying functional polymorphisms through signatures of recent positive selection</i></p>

**10.30 Technology Showcase: Ariadne Genomics (*Exchange Room 2*)**  
*Molecular networks: Extraction from the literature and network analysis for Human, Plants and other organisms.*

**12.30 Lunch in Exhibition Hall**

**13.00-13.45 EBI Workshop (*Charter 3*)**  
*Data resources for proteomics – Sandra Orchard*  
*Reactome: a curated knowledgebase of biological pathways – Esther Schmidt*



**PARALLEL AFTERNOON SESSIONS - Wednesday**

14.00 Session 1	14.00 Session 2	14.00 Session 3
<p><b><i>Exchange Auditorium</i></b>  <b><u>Systems Biology from Microbe to Planet: Understanding lots of data through comprehensive models</u></b>  <i>(Organised by Hans Westerhoff &amp; Douglas Kell)</i></p> <p><b>Masaru Tomita</b>            (Keio)  <i>Multi-omics Analysis &amp; Integrative Systems Biology</i></p> <p><b>Steve Oliver</b>            (Cambridge)  <i>Yeast Systems Biology: the BIG experiment</i></p> <p><b>Matthias Reuss</b>            (Stuttgart)  <i>Unravelling regulatory networks in hepatocytes on the basis of time-series data</i></p> <p><b>David Richardson</b>            (Norwich)  <i>The global nitrogen cycle; where micro becomes tera</i></p> <p><i>Short presentation</i>  <b>Gabriella Pastori</b>            (BBSRC)            Update on national &amp; international funding activities in systems biology</p>	<p><b><i>Charter 3</i></b>  <b><u>Advanced Concepts &amp; Techniques in Array Informatics</u></b>  <i>(Organised by Andrew Cossins &amp; John Quackenbush)</i></p> <p><b>John Quackenbush</b>            (Harvard)  <i>Networks &amp; stochastics in gene expression</i></p> <p><b>Ernst Wit</b>            (Lancaster)  <i>From Genomes to Systems – &amp; some statistics in-between</i></p> <p><b>Wolfgang Huber</b>            (EMBL-EBI)  <i>Morphological and dynamic signatures of gene function from genome-wide RNAi and automated microscopy phenotyping</i></p> <p><b>Enrico Petretto</b>            (Imperial College London)  <i>Integrating genetic &amp; gene expression data to map eQTLs: applications to functional genomics</i></p>	<p><b><i>Charter 1</i></b>  <b><u>Clinical Genomics of Cancer</u></b>  <i>(Organised by Alex Graham)</i></p> <p><b>François Radvanyi</b>            (CNRS - Institut Curie)  <i>Identification of genetic &amp; epigenetic changes in cancer based on "omics" data</i></p> <p><b>René Bernards</b>            (The Netherlands Cancer Institute)  <i>Understanding mechanisms of drug resistance using functional genetic approaches</i></p> <p><b>Anne-Lise Børresen-Dale</b>            (Oslo, Norway)  <i>Exploring the systems pathology/biology of breast cancer</i></p> <p><b>Alex Graham</b>            (AstraZeneca)  <i>The use of biomarkers in cancer drug discovery</i></p>

**16.00 Refreshments**

**16.30 Plenary lecture – Hans Westerhoff (*Exchange Auditorium*)**  
***From Genomes to Systems to.....dealing with the networks***

**17.30-18.00 Close**

## **Poster Presentations**

Details of the poster presentations will be available in the delegate handbook at the event.

## **List of Exhibitors**

A list of exhibitors is available on the Genomes to Systems website <http://www.genomestosystems.org/>.

## **List of delegates**

A copy of the list will be distributed on the first day of the conference.

## **Networking and Partnering**

To ensure you get the maximum benefit possible from this conference we have built in an opportunity to meet with fellow delegates and exhibiting companies throughout the day in the Exchange Hall.

During the evening of 18<sup>th</sup> March, after the conference sessions finish, there will be an opportunity to enjoy a drink and continue conversations, also a chance to listen to an informal talk – *“Space Travel & Genomics in Space”* by Larry DeLucas.

## Directions and travel

### Flights

#### **Manchester International Airport**

Manchester's International Airport is only 10km away from MICC, with daily scheduled flights connecting Manchester to all other major British cities and most European capitals. Transatlantic flights link Manchester directly with several major North American cities, and further a-field. The airport has its own railway station with frequent services to Manchester's Piccadilly Station. The journey takes about 25 minutes by train and run every 15 minutes. For details about the Airport Rail Link, you can phone 08457 48 49 50 or +44(0)207 278 5240. Alternatively, it is a short taxi-ride.

#### **Liverpool John Lennon Airport**

This up-and-coming airport is convenient from European cities via EasyJet. There are frequent buses to Manchester, which is only 30 miles (45km) away.

### Rail

Manchester is served by two mainline railway stations, both of which are located in the City Centre. Manchester Victoria and Manchester Piccadilly together provide direct rail connections to all major UK cities; London is 3 hours away by train, Birmingham, 2 hours and Edinburgh and Glasgow, 4 hours. First NorthWestern, Arriva and Virgin Trains operate out of Manchester.

For further details go to:

[www.firstnorthwestern.co.uk](http://www.firstnorthwestern.co.uk)

[www.arrivatrainsnorthern.co.uk](http://www.arrivatrainsnorthern.co.uk)

[www.virgintrains.co.uk](http://www.virgintrains.co.uk)

For journey bookings go to:

[www.thetrainline.co.uk](http://www.thetrainline.co.uk)

National Rail enquiries : (08457 48 49 50 or +44(0)207 278 5240) for a full and up-to-date information on your train journey, times and fares, alternatively visit [www.nationalrail.co.uk](http://www.nationalrail.co.uk) for timetable details.

### Road

Ringed by the M60, Manchester is ideally close to the UK's extensive motorway network giving easy access to all parts of the country:

**M62** : Links Manchester with Leeds in the east and Liverpool in the west.

**M6** : Links Manchester to Birmingham and London in the South and the Scottish border in the north.

**M56** : Links Manchester Chester and North Wales in the South.

**M61** : Links Manchester with Preston.

### Coach

National Express Coaches travel to and from most UK city centres and take you directly into Manchester. The coach station is located on Chorlton Street. Full details of travelling by coach can be obtained from [www.nationalexpress.com](http://www.nationalexpress.com).

**Car Parking** (reservation form is included in this document)

**Manchester Central is served by two Car Parks:**

**UNDERCROFT CAR PARK**

**Access from Lower Mosley Street  
Open 7 days, 24 hours (manned)  
Fully Automatic**

**UPPER LEVEL CAR PARK**

**Access from Albion Street  
Open 7 days, 24 Hours (unmanned)  
Fully Automatic**

***Vouchers must be applied for in advance – there are a limited number available (250 vouchers per day) and cannot be purchased “on the day”.***

Exhibitors/Delegates can obtain special Car Park tickets at a reduced rate of **£12.00 per day inc VAT**. for the build up, breakdown and open days of the event. Tickets must be purchased before the deadline date using the attached application form and paid for in advance by credit card or cheque made payable to **NATIONAL CAR PARKS M/CR LTD**. Tickets will be returned by post together with a full VAT receipt.

Tickets are valid for cars and small vans only. There is a height restriction of 6ft. 6ins. on the Manchester Central Undercroft Car Park. The Upper Level Car Park does not have a height restriction during Build-up, Open, and Breakdown periods. However there is a weight limit of 3.5 tons.

**PLEASE EMAIL COMPLETED APPLICATION FORM TO: [florence.bony@ncp.co.uk](mailto:florence.bony@ncp.co.uk)**

**OR RETURN BY POST TO:**

**Florence Bony  
National Car Parks  
NML House  
61 High Street  
Manchester  
M4 1AZ**

# Parking Voucher Application Form Exhibitors & Delegates Only

**Return this form to:**

Hayley East  
 National Car Parks  
 NML House  
 61 High Street, Manchester, M4 1AZ  
 Fax: 0161 839 8423  
 Email: Florence.bony@ncp.co.uk

EVENT TITLE: **GENOMES TO SYSTEMS CONFERENCE 2008**

EVENT DATES: **17-19<sup>TH</sup> MARCH 2008**

DEADLINE DATE: **7<sup>TH</sup> MARCH 2008**

Manchester Central

**We require Parking Vouchers as follows: @ £12.00 per day inc. V.A.T.**

Please enter registration and tick dates when vehicles are using car park

Vehicle Reg.	Build Up		Open Dates	
	Date	Date	Date	Date

Exhibiting Company:

Address:

Telephone No:

Contact Name:

Total Amount Due:

Issue No

Please charge to my Debit/ Credit Card

Start Date:

Card No.

Expiry Date:

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Security No. (last 3 digits on the back of your card)

- Cheques made payable to National Car Parks M/cr Ltd.
- Please note we do not accept American Express
- Vouchers sent on receipt of payment. No later than the deadline date.
- Refunds are not available after the start of the event/exhibition/conference.
- No stock or valuables should be left unattended.
- Entry to, and use of the Car Parks is at your own risk.
- On arrival take parking ticket from entry barrier, when leaving place the same ticket in exit barrier followed by correctly dated pre-paid validation ticket to allow exit.
- **Please note that only 250 vouchers will be issued per day.**

## Accommodation

We have listed below a few of the hotels that are near to Manchester Central including their rates, if you require accommodation please now contact the hotels direct.

Hotel	Rate
Radisson Edwardian 5* Free Trade Hall Peter Street Manchester M2 5GP  Tel: 0161 835 9929 <a href="http://www.radissonedwardian.com/manchester">www.radissonedwardian.com/manchester</a>	£149 inc. breakfast & VAT
The City Inn 4* One Piccadilly Place 1 Auburn Street Manchester M1 3DG  Tel: 0161 228 0008 <a href="http://www.cityinn.com">www.cityinn.com</a>	£125 inc. breakfast & VAT
Ibis Hotel 3* Charles Street Manchester M1 7DL  Tel : 0161 272 5000 <a href="http://www.ibishotel.com">www.ibishotel.com</a>	£59 per room per night £5.25 for breakfast

There are many more hotels that cover this area available on the Manchester Central Website.

We very much look forward to seeing you there, and in the meantime if you have any further questions, please do not hesitate to contact [genomes@gemini-international.com](mailto:genomes@gemini-international.com)