

# Data In Drug Discovery – It's Time To Get Honest!

(Updated and Final Version of 21 September 2015)

10am – 5.30pm, 23 September 2015

**Pfizer Lecture Theatre**, Department of Chemistry, Lensfield Road, University of Cambridge, Cambridge CB2 1EW, United Kingdom

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## Setting the Scene

- 10am Andreas Bender, Department of Chemistry, University of Cambridge, Cambridge / UK  
"So why are we here? From observations and experience to understanding and insight"
- 10.15am Matt Segall, Optibrium, Cambridge / UK  
"The challenges of making decisions using uncertain data"

## Understanding Gene Expression, Genome-Proteome Relationships, and Cellular Phenotypes

- 10.45am Paul Schofield, Department of Physiology, University of Cambridge, Cambridge / UK  
"Exploiting gene expression signatures and the phenotypes of mutant mice to predict drug action"
- 11.15am Tea (Foyer)
- 11.45am Christoph Schlaffner, Sanger Institute and Department of Chemistry, Cambridge / UK  
"Quantitative proteogenomics application to personalised proteomics"
- 12.15pm Bram Herpers, OcellO, Leiden / NL  
"Compound screening and profiling in 3D cultured human tissues: How morphometric data can be used to determine compound efficacy and discriminate mode of action."
- 12.45pm "The limits of data: Digitally-induced circumflexion of *Phaseolus vulgaris* and related chemical matter increases ion channel and GPCR-mediated signalling in the oral cavity"  
(aka 'tacos for lunch'; top floor of the Centre for Molecular Informatics, room U202)

## Genetic and Network Information for Cell Sensitivity Prediction and Target Discovery

- 2pm Mathew Garnett, Sanger Institute, Hinxton / UK  
"High throughput chemical and genetic screening data: separating the wheat from the chaff"
- 2.30pm Tamas Korcsmaros, The Genome Analysis Centre (TGAC) and Institute of Food Research (IFR), Norwich / UK  
"Challenges and opportunities of network biology approaches to promote drug discovery"

## Data in Drug Discovery – Opportunities and Challenges

- 3pm Tim James, Evotec, Abingdon / UK  
"Annotation bias in phenotypic deconvolution "
- 3.30pm Coffee (Foyer)
- 4pm Matt Segall, Optibrium, Cambridge / UK  
"How confident can we be in ADME predictions?"
- 4.30pm Scott Lusher, Netherlands eScience Center, Amsterdam / NL  
"Data-driven medicinal chemistry in the era of big data"
- 5pm William Spooner, Eagle Genomics, Cambridge / UK  
"The increasing problem of silos in data-driven drug discovery; what can be done?"
- 5.30pm Symposium close  
Visit to the Alma (Russell Court, CB2 1HW)