

# C1net – METABOLIC MODELLING WORKSHOP 4

## Park Inn Hotel , Nottingham

Monday 15 January - Friday 19 January 2018

### About

Redirecting an organism's metabolism towards novel products raises a number of design issues. What is the impact of the new pathway on the cell's energy and redox metabolism? Can the precursor and coenzyme requirements be satisfied? Should some parts of the metabolic network be blocked off to ensure the most efficient routes to the product are favoured? Answering these questions needs tools that can compute and compare feasible routes through the cell's metabolic network, as well as methods for defining and representing the metabolic network in a way the tools can use. This is the domain of structural analysis of metabolism, and techniques such as elementary modes analysis and flux balance analysis. This combined theoretical and practical course will explain the theory behind these techniques and give hands-on experience of building metabolic network models and calculating feasible and optimal routes through them. It will be presented by David Fell and his colleagues in the Cell Systems Modelling Group of Oxford Brookes University. It covers the same area as the previous C1net Modelling Workshop 1 and 3, but is complementary to Workshop 2 on kinetic models.

### Details

What: Free participation, accommodation (for non-local delegates) and meals for members of C1NET or another NIBB network. Participants are required to bring their own laptop (not netbook or tablet).

Software will be provided.

When: Monday 15 January 2018, 13.30 - Friday 19 January 2018 13:30

Where: Park Inn, Nottingham, Nottinghamshire, NG5 2BT, Tel: +44(0) 115 935 9988

<https://www.parkinn.co.uk/hotel-nottingham>

### Application

Attendance is by invitation after submitting the application form and is only open to signed-up members of C1NET or one of the other BBSRC Networks in Industrial Biotechnology and Bioenergy (BBSRC NIBBs).

Application opens 1 October 2017 and closes 30 November 2017 (or earlier if full)

Places are limited, so apply early to avoid disappointment

Successful applicants will be notified by 7 December 2017 at the latest...

**Open to C1net and other BBSRC NIBB members only.**

**So join now!!**

[www.c1net.co.uk](http://www.c1net.co.uk)

**FOR MORE DETAILS AND APPLICATION FORM**

<http://www.c1net.co.uk/Events-workshop-4.html>



**FREE  
PARTICIPATION  
& BOARD**

