

C1net – METABOLIC MODELLING WORKSHOP 2

Introduction to Kinetic Modelling

Monday 28 September - Friday 2 October 2015

About

Redirecting an organism's metabolism towards novel products raises a number of design issues. The first of these is assessing whether the new pathway can be made compatible with the structure of the organism's metabolic network. This is the domain of structural metabolic modelling that was the subject of C1net Workshop 1. However, structural modelling takes little account the kinetics of enzymes and the concentrations of metabolites, and therefore is unable to answer questions such as how much enzyme activity needs to be expressed to achieve the required rate of formation of products, and which particular enzymes might be limiting the productivity and need to be up-regulated. For this it is necessary to have an understanding of the kinetic behavior of metabolic networks and an ability to model their kinetic properties. This combined theoretical and practical course will explain the theory of kinetic modelling and related concepts such as Metabolic Control Analysis, with particular emphasis on examples drawn from microbial metabolism. It will be presented by David Fell and his colleagues in the Cell Systems Modelling Group at Oxford Brookes University. Though this course complements the material presented in Workshop 1, attendance at that is not a pre-requisite.

Details

What: Free participation, accommodation (for non-local delegates) and meals for 5 days and 4 nights. Participants are required to bring their own laptop, but software will be provided.

When: Monday 28 September 2015, 13:30 – Friday 2 October 2015, 13:30

Where: Lady Margaret Hall, Oxford, OX2 6QA, UK

For travel instructions, see <http://www.lmh.ox.ac.uk/About-LMH/Maps-and-directions.asp>

Application

Attendance is by invitation after application by 10 August 2015 and is only open to signed-up members of C1NET or one of the other BBSRC Networks in Industrial Biotechnology and Bioenergy (BBSRC NIBBs).

Successful applicants will be notified by 24 August 2015.

Open to C1net and other BBSRC NIBB members only.

So join now!!

www.c1net.co.uk

FOR MORE DETAILS AND APPLICATION FORM

<http://www.c1net.co.uk/Events-workshop-2.html>



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& BOARD**

