Hamilton Institute

Kinetic Modelling of Metabolism

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I will introduce the principles behind, and different approaches to, the building of mathematical models of metabolism. Then, focusing on kinetic models, I will deal with the issues of defining and parameterizing appropriate rate functions. Applications of kinetic modelling, and the analysis of kinetic models, will be illustrated with examples from bacterial threonine metabolism, plant carbohydrate metabolism and the mitochondrial tricarboxylic acid cycle. Similar approaches can be applied to the modelling of other cellular processes.

http://mudshark.brookes.ac.uk/

Venue: Seminar Room, Hamilton Institute, Rye Hall, NUI Maynooth

Time: 2.00 - 3.00pm (followed by tea/coffee)

Travel directions are available at www.hamilton.ie

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