



Hamilton Institute

A Systems Biology Approach to
Apoptosis Signalling

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Abstract:

Apoptosis is an important physiological process crucially involved in the development and homeostasis of multi-cellular organisms. Although the major signalling pathways leading from the extrinsic induction to the execution of apoptosis have been unravelled, a detailed mechanistic understanding of the complex underlying network and the signal crosstalk remains elusive. A systems biology approach allows to combine diverse data into mathematical models to perform predictive simulations and testing of quantitative and dynamical hypotheses. The modelling process furthermore reveals theoretical and computational challenges.

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

