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Statistical inference for parameters of biochemical networks

Wednesday, 11 July 2018 12:00 (30 minutes)

The inference for the reaction rates in chemical networks is often challenging due to intrinsic and extrinsic biological noise, missing data and lack of experimental reproducibility. The talk will provide an overview of some recent work on new efficient methods of rates estimation in stochastic biochemical networks both at molecular and population scales. Stochastic SIR and Michaelis Menten models will be used as examples to illustrate broader points.

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Session Classification: Multiscaling methods and parameter inference in stochastic biochemical networks

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