Contents:

 - Introduction, basic methodology

   biochemical reaction networks
   simulation of models
   introduction into used software

 - Parameter estimation techniques

   Model fitting
   optimisation algorithms
   parameter identifyability

 - Stochastic modeling

   exact and approximate stochastic simulation algorithms
   effects of intrinsic stochasticity in biochemical models

If possible, please bring your computers. Install the software COPASI (www.copasi.org, download the latest version) which will be used for practical exercises.