Response Adaptive Dose-Finding under Model Uncertainty using the DoseFinding R package.

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This talk will consist of two parts. In the first part we will discuss a methodology for designing response adaptive dose-finding studies, based on ideas from Bayesian statistics, optimal design theory and the MCPMod methodology. We will illustrate the method in a simulation study based on a case study in asthma.

The second part will give an overview of the DoseFinding R package and will give hints on how to implement the proposed design methodology using the DoseFinding R package.