

Getting started with Optimal Design for NLME models

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Abstract

With the growing need of improving the way experimental designs are elaborated to allow for a precise parameter estimation using the minimal number of individuals and sampling points, the interest on model-based optimal design (OD) as a tool to evaluate and optimise experiments beforehand is greatly increasing. Currently, there are several tools available for OD applied to NLME. However, given the lack of comprehensive tutorials and still scarce literature, pharmacometricians frequently have difficulties to select the most suitable tool and algorithm according to their design scenario, tackle warnings and errors, and critically judge and present the results. The aim of this talk is to present the challenges that newbies face when getting started into the field of optimal design.