**Mathematical modelling in early drug discovery**

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The process of drug discovery is a long and costly process. Mathematical modelling can support decision-making and project progression by improving our quantitative understanding of the disease-drug interaction, by reconciling the heterogenous experimental data, and by providing possible hypotheses for unexpected or counterintuitive behaviours observed.

I will present three examples of modelling projects that span across the variety of different scales, complexity and abstraction levels that we encounter in early drug discovery.