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## Bayesian vocabulary

- paradigm
- a priori
- a posteriori
- elicitation

## Course objectives

## • Familiarize oneself with the Bayesian framework:

- understand and assess a Bayesian modeling strategy, and discuss its underlying assumptions
- 2 rigorously describe expert knowledge by a quantitative prior distribution

## 2 Study and perform Bayesian analyses in biomedical applications:

- understand, discuss and reproduce a Bayesian (re-)estimation of a Relative Risk
- understand and perform a Bayesian meta-analysis using
- 3 understand and explain an adaptive design for Phase I/II trials and the associated decision-rule

**NB**: this course is by no means exhaustive, and the curious reader will be referred to more complete works such as *The Bayesian Choice* by C Robert.