Presenters: Simon Wandel, Beat Neuenschwander (Novartis)

Day 1
10.00-10.25 Registration and welcome coffee
10.25-10.30 Welcome from the organizers

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| **1. Essentials of Bayesian Statistics** | ➢ Bayesian thinking  
➢ Prior, posterior and predictive distributions  
➢ Conjugate Bayesian analyses  
➢ Normal approximations | 10:30-12:30 |
| **Lunch break** | | 12:30-13:30 |
| **2. Systematic reviews** | ➢ Key concepts  
➢ Do’s and dont’s  
➢ Link to prior distributions | 13.30-15.00 |
| **Coffee break** | | 15.00-15.30 |
| **3. Bayesian meta-analysis and hierarchical models** | ➢ The normal-normal hierarchical model  
➢ The meta-analytic-predictive (MAP) and meta-analytic-combined (MAC) approach  
➢ Bayesian meta-analysis | 15.30-17.30 |

Day 2

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| **4. Prior distributions** | ➢ Robust priors  
➢ Mixture priors  
➢ Prior elicitation  
➢ Operating characteristics | 09.00-11.00 |
| **Coffee break** | | 11.00-11.15 |
| **5. Predictions, probability of success** | ➢ Predictive distribution for probability of success (PoS)  
➢ Within- and between-trial PoS calculations | 11.15-12.15 |
| **Lunch break** | | 12.15-13.15 |
| **6. Survival analysis** | ➢ Exponential model  
➢ Piece-wise exponential model | 13.15-15.15 |
| **Coffee break** | | 15.15-15.45 |
| **7. Other applications** | ➢ Subgroup analyses  
➢ Extrapolation and bridging | 15.45-17.00 |