

# Agenda

## Bayesian Clinical Trials

Meeting Date: **Oct 4<sup>th</sup> 10.30-17.30**  
**Oct 5<sup>th</sup> 09.00-17.00**

Location: Ulm University, Senatssaal,  
Helmholtzstrasse 16

Presenters: Simon Wandel, Beat Neuenschwander (Novartis)

### Day 1

10.00-10.25 Registration and welcome coffee

10.25-10.30 Welcome from the organizers

Topic	Details	Time
<b>1. Essentials of Bayesian Statistics</b>	<ul style="list-style-type: none"> <li>➤ Bayesian thinking</li> <li>➤ Prior, posterior and predictive distributions</li> <li>➤ Conjugate Bayesian analyses</li> <li>➤ Normal approximations</li> </ul>	<b>10:30-12:30</b>
<b>Lunch break</b>		<b>12:30-13:30</b>
<b>2. Systematic reviews</b>	<ul style="list-style-type: none"> <li>➤ Key concepts</li> <li>➤ Do's and don'ts</li> <li>➤ Link to prior distributions</li> </ul>	<b>13.30-15.00</b>
<b>Coffee break</b>		<b>15.00-15.30</b>
<b>3. Bayesian meta-analysis and hierarchical models</b>	<ul style="list-style-type: none"> <li>➤ The normal-normal hierarchical model</li> <li>➤ The meta-analytic-predictive (MAP) and meta-analytic-combined (MAC) approach</li> <li>➤ Bayesian meta-analysis</li> </ul>	<b>15.30-17.30</b>

### Day 2

Topic	Details	Time
<b>4. Prior distributions</b>	<ul style="list-style-type: none"> <li>➤ Robust priors</li> <li>➤ Mixture priors</li> <li>➤ Prior elicitation</li> <li>➤ Operating characteristics</li> </ul>	<b>09.00-11.00</b>
<b>Coffee break</b>		<b>11.00-11.15</b>
<b>5. Predictions, probability of success</b>	<ul style="list-style-type: none"> <li>➤ Predictive distribution for probability of success (PoS)</li> <li>➤ Within- and between-trial PoS calculations</li> </ul>	<b>11.15-12.15</b>
<b>Lunch break</b>		<b>12.15-13.15</b>
<b>6. Survival analysis</b>	<ul style="list-style-type: none"> <li>➤ Exponential model</li> <li>➤ Piece-wise exponential model</li> </ul>	<b>13.15-15.15</b>
<b>Coffee break</b>		<b>15.15-15.45</b>
<b>7. Other applications</b>	<ul style="list-style-type: none"> <li>➤ Subgroup analyses</li> <li>➤ Extrapolation and bridging</li> </ul>	<b>15.45-17:00</b>