

Intermediate meta-analysis of data from animal studies in R

Course Lecturers:

Dr Daniel Schulze ([Institut für Biometrie und Klinische Epidemiologie](#)) & Dr Alexandra Bannach-Brown ([BIH QUEST Center](#))

Location:

Online via MS Teams

Dates:

Wednesday 25th June & Thursday 26th June, from 12pm-5pm CEST

Course Schedule:

🗨 **Pre-Course Drop-In Session for Setup & Tech Support (Optional)**

Monday 16th June, 12-13 CEST, online via MS Teams: [Click here to join the meeting](#)

Monday 23rd June, 12-13 CEST, online via MS Teams: [Click here to join the meeting](#)

Day 1 (Live on MS Teams)

Theme: Foundations + First Meta-Analysis in R

| Time | Session | Type |
|-------|---|--------------------------------------|
| 12:00 | Introduction | Lecture |
| 12:30 | Clarifying data types, outcomes, and effect sizes | Lecture |
| 13:15 | Data extraction from primary animal studies | Exercise (Breakout groups) |
| 13:45 | Break - 15mins | |
| 14:00 | Calculating effect sizes (manually + in metafor) | Lecture + Exercise (R code-along) |
| 14:45 | Running a meta-analysis in R: defaults & settings | Lecture + Exercise (R code-along) |
| 15:30 | Break - 15mins | |
| 15:45 | Forest plots: defaults + customization | Lecture + Exercise (R code-along) |
| 16:30 | Wrap-up & Q&A | Whole-group Discussion |



Day 2 (Live on MS Teams)

Theme: Advanced Analysis + Interpretation

| Time | Session | Type |
|-------|--|--|
| 12:00 | Heterogeneity in animal studies | Lecture |
| 12:30 | Meta-regression: Models & explaining heterogeneity | Lecture |
| 13:30 | Break - 15mins | |
| 13:45 | Running meta-regression models + plotting | Lecture + Exercise (R code- along) |
| 14:45 | Troubleshooting & common obstacles | Lecture + group Discussion |
| 15:00 | Break - 15mins | |
| 15:15 | Risk of Bias & sensitivity analysis | Lecture |
| 15:45 | Funnel plots in R | Lecture + Exercise (R code- along) |
| 16:15 | Course Wrap-up, Q&A, Feedback | Whole-group Discussion |

Contact Email:

For more information, please contact Dr Alexandra Bannach-Brown at CAMARADES.berlin@charite.de

