

# **Summer School on Systematic Review of Animal Studies 20 – 23 August 2024 STRIDELab + Norecopa**

Total Length: 4 days, 0830-1500

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## **Tuesday 20 August: Introduction, research question, and protocol registration**

8.30-9: Introduction of speakers, participants, and Norecopa

9-10: Keynote - Introduction, What is a Systematic Review (SR) and why perform it? Introduction to different types of reviews. How to conduct evidence-based preclinical research and why it matters, discussion.

10-10.15: Break

10.15-11.15: First steps of a systematic review (45mins), formulating a research question, PICO + 15 mins discussion

11.15-12.15: Protocol registration - mention of PREPARE (45mins): why register a protocol, registries (Prospero, OSF etc) + 15 min discussion

12.15-13.15: Lunch

13.15-15: Clarify further questions from the morning, explain exercise. Hands-on: Formulate a research question, write up of a Prospero protocol (shortened - plus, this is beneficial for any type of study preparation)

Participants can submit their protocol and feedback may be given (required for ECTS).

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## **Wednesday 21 August: Literature searches and reference management**

8.30-9 Review/questions

9-10.15 Lecture: References databases types, library services, building a search string exemplified in PubMed. Syntax, pitfalls.

10.15-10.30: Break

10.30-12.15: Hands-on: build your own search string

12.15-13.15: Lunch

13.15-14: Reference management options, softwares, best practices, deduplication

14-15: Hands-on: input the search string one of the methods and deduplicate the finding

Participants may submit their search strings for feedback.

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### **Thursday 22 August: Screening and Automation**

8.30-9: Review/questions

9-10: How to screen abstracts and full texts?: Software: SyRF, Rayyan, ASReview and others. Approaches and pitfalls

10-10.15: Break

10.15-11.15: Hands-on: abstract sorting

11.15-12: How to perform data extraction from full texts? Fetching full texts, deduplication, google sheets, meta-data, graphs/tables.

12-13: Lunch

13-14: Hands-on data extraction

14-15: Automation: How can we automate the systematic review? STEED, Large language models, abstract sorting.

Participants may submit their extraction sheets.

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### **Friday 23 August: Risk of bias, meta-analysis, closing remarks**

8.30-9: Review/questions

9-9.30: Norecopa, its scope and role - how can Norecopa help you?

9 - 11.30: Meta-analysis. Lectures + Demo/Hands-on

11.30-12.30: Lunch

12.30-13.30: Risk of bias (RoB) assessment, How to perform it. SYRCLE and CAMARADES tools, approaches, pitfalls.

13.30-14.30: Hands-on RoB assessment

14.30 - 14.45 - Final Q&A, feedback form

14.45-15 Concluding remarks, review expectations, publishing a SR