

**Laboratory Animal Centre seminar, organized by the Animal Welfare Body  
and Health and Biosciences Doctoral Programme, University of Oulu Graduate School**

**3R seminar: Study design**

**The medical faculty, Aapistie 5A, 90220 Oulu  
Lecture hall 101A – Leena Palotie -sali**

**Thursday, 31<sup>st</sup> January 2019**

**Programme**

Chair: Reetta Hinttala

8:30 – 8:35

**Opening of the seminar**

*Professor Hanna-Marja Voipio, Director,  
Laboratory Animal Centre, University of Oulu, Finland*

8:35 – 9:30

**PREPARE before you ARRIVE: planning and reporting animal experiments**

*Professor Adrian Smith, Secretary of Norecopa, Norway*

9:30 – 10:00

Coffee break

10:00 – 10:40

**Embracing variation to improve replicability of in-vivo research**

*Dr Natasha Karp, Associate Principal Scientist - Statistician,  
Quantitative Biology, IMED Biotech Unit, AstraZeneca, UK*

10:40 – 11:30

**Unstable p values are causing lack of repeatability in animal experiments**

*Dr Lewis Halsey, University of Roehampton, UK*

11:30 – 12:30

Lunch

Chair: Kari Mäkelä

12:30 – 13:25

**Sleep and Circadian rhythms in research: Why should we care?**

*Dr Henna-Kaisa Wigren, Postdoctoral fellow / Junior Group leader,  
Sleep Team Helsinki, University of Helsinki, Finland*

13:25 – 14:15

**Unconscious bias in scientific research - Cautionary tales from psychology's replication crisis**

*Dr Stuart Ritchie, King's College, London, UK*

14:15 – 14:45

Coffee break

14:45 – 15:45

**Sex bias in pre-clinical research**

*Dr Natasha Karp*

15:45

**Closing remarks**

**Registration until 23.1.2019:** <https://www.webropolsurveys.com/S/120EC695C2556024.par>

**Credits:** This seminar gives 0,3 ECTS.