

EMG workshop – CRC1451

Part A: *Theoretical introduction to EMG recordings*

30.11.22 *In person* at Biozentrum Zülpicherstr. 47b or *via zoom* if requested.

1-3 PM Dr. Matthias Gruhn *Introduction to EMGs.*

01.12.22 *In person only* at Biozentrum Zülpicherstr. 47b

10-12 PM Prof. Turgay Akay, *Introduction to EMGs*

1-4 PM Prof. Turgay Akay *Building EMG electrode Part 1.*

Part B: *Making EMG electrodes*

06.12.22 *In person only* at Biozentrum Zülpicherstr. 47b

10-12 PM Prof. Turgay Akay, *Building EMG electrode Part 2*

1-4 PM Prof. Turgay Akay *Building EMG electrode Part 3.*

07.12.22 *In person only* at Biozentrum Zülpicherstr. 47b

10-12 PM Prof. Turgay Akay, *Building EMG electrode Part 2*

1-4 PM Prof. Turgay Akay *Building EMG electrode Part 3.*

Part C: *Implant EMG electrodes in mice and record EMG signals*

13.12.22 *In person only* Genetic Mouse Facility, Zülpicherstr.

1-4 PM Prof. Turgay Akay, Dr. Matthias Gruhn, Dr. Graziana Gatto

- Animal Care Regulations
- Anatomical Techniques
- Practice sutures on sponges

14.12.22 *In person only* Genetic Mouse Facility, Zülpicherstr.

9 AM - 5PM Prof. Turgay Akay, Dr. Matthias Gruhn, Dr. Graziana Gatto

- Practice EMG implants and sutures on dead mice
- Verification of Electrode Positioning

15.12.22 *In person only* Genetic Mouse Facility, Zülpicherstr.

9 AM - 5PM Prof. Turgay Akay, Dr. Matthias Gruhn, Dr. Graziana Gatto

- Surgical Techniques to implant EMG electrodes in mouse muscles
- Assessing post-operative stress and pain and reporting it on the Scoresheet
- Electrical Testing, Calibration, and Failure Analysis
- Signal Processing and Display
- Mouse euthanasia