

MITOEAGLE data repository in muscle

TG2.1 Skeletal

TG leaders: [Garcia-Roves Pablo M](#) ES / [Votion Dominique-Marie](#) BE / [Coen Paul M](#) US

TG participants: [Boyle John P](#) UK, [Chabi Beatrice](#) FR, [Garcia-Roves Pablo M](#) ES, [Lehti Maarit](#) FI, [Mars Tomaz](#) SI, [Pirkmajer Sergej](#) SI, [Rustan Arild](#) NO, [Schlattner Uwe](#) FR, [Wuest Rob C](#) NL and many others

TG2.2 Cardiac

TG leaders: [Larsen Terje S](#) NO / [Makrecka-Kuka Marina](#) LV

TG participants: [Muntean Danina M](#) RO , [Schlattner Uwe](#) FR, [Vendelin Marko](#) EE, [Wuest Rob C](#) NL



Carolina Doerrier

Larsen Steen

Summary of the discussion about ...

→ different types of media

How to get robust conclusion since other factors may influence results?

→ Proposal for two joint experiments

- 1. with experts in the field of *human skeletal muscle*
 - In Denmark
- 2. with experts in the field of *mouse skeletal muscle*
 - In Innsbruck

NB:

+ researchers from Inclusiveness Target Countries

Date: after April 2018 (2nd grant period)



Summary of the discussion about ...

→ MitoEAGLE WG2 pilot study

Aim: Implementation of a reference protocol as a tool for instrumental and technical quality control in muscle tissues

→ **Collection of data** (Permeabilized fibers (pfi) - soleus)

Mouse model

- Mouse strain: C57BL6 J - Age: 14-20 weeks
- Gender: male (N=4) and female (N=4), total N=8
- **SUIT protocol: 1PM;2D;2c;3G;4S;5U;6Ama**

→ **Quick analysis of data**

- **Variability among groups (Flux)**
- **Same FRC**

→ **How to improve the protocol to reduce the variability?**

- **Additional labs**
- **Factors: Ww, mechanical permeabilisation (video, picture)**
- **Supply of chemicals to participating labs**



Summary of the discussion about ...

→ cardiac muscle respirometry data in MitoEAGLE format

→ Search of the literature

➤ **Data according to different diseases**

➤ **Several studies in clinical journals: *often lack of robust description of the methodology***

➤ **Probably not one paper to be written but several ones according to the condition and preparations**

→ Working team extended