

Mitochondrial respirometry reference values from permeabilized mouse soleus muscle fibers.

MitoEAGLE – WG2 pilot study.

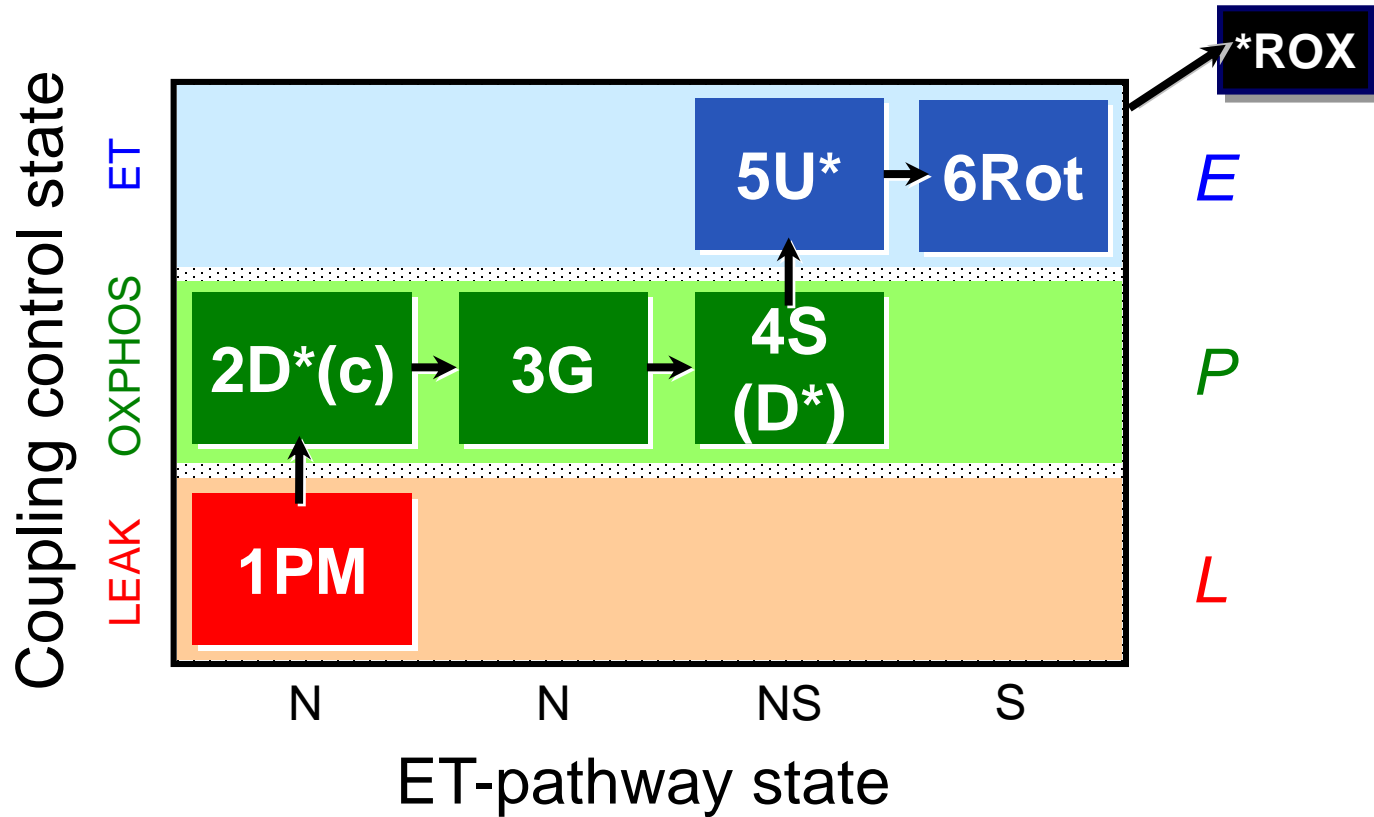
Garcia-Roves PM, Chabi B, Cortade F, Doerrier C, Dubouchaud H, Gama-Perez P, Grefte S, Irving B, Ost M, Pesta D.

Mouse model

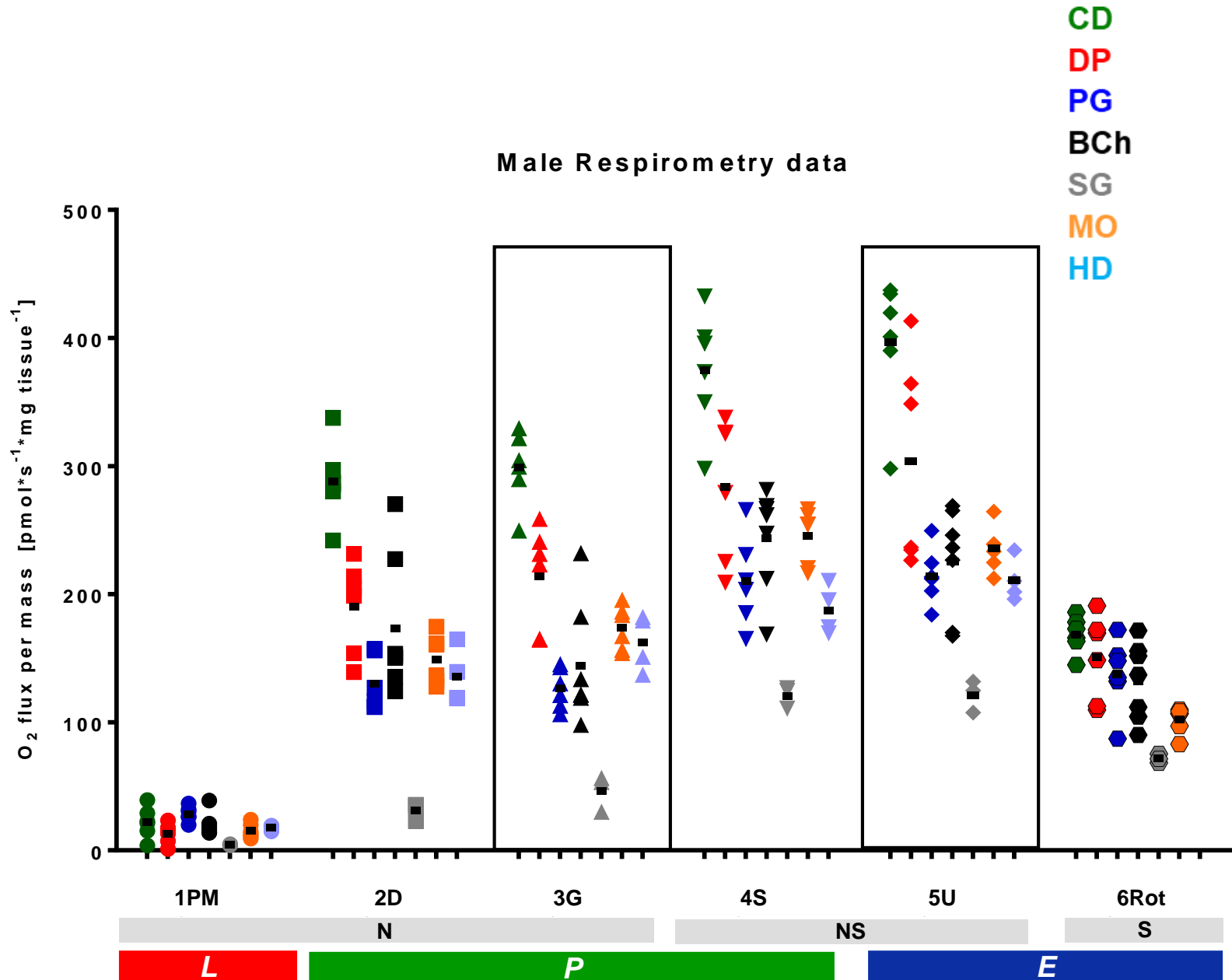
- Mouse strain: C57BL6 J
- Gender: male (N=4) and female (N=4), total N=8
- Age: 14-20 weeks (mouse);
- Skeletal muscle type: soleus

PROPOSAL – SUIT PROTOCOL

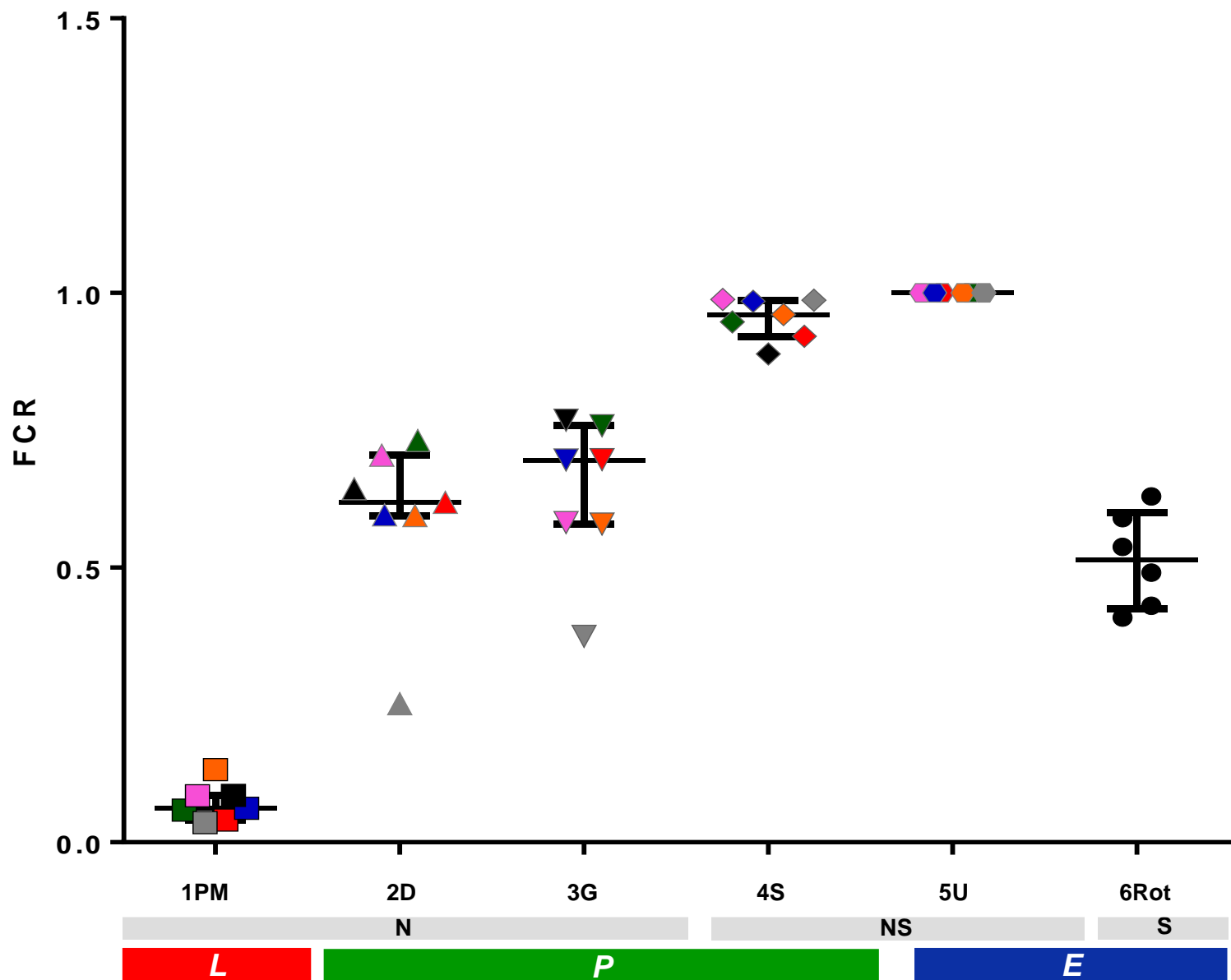
1PM;2D;2c;3G;4S;4D;5U;6Rot;7Ama;8TmAs;9Azd



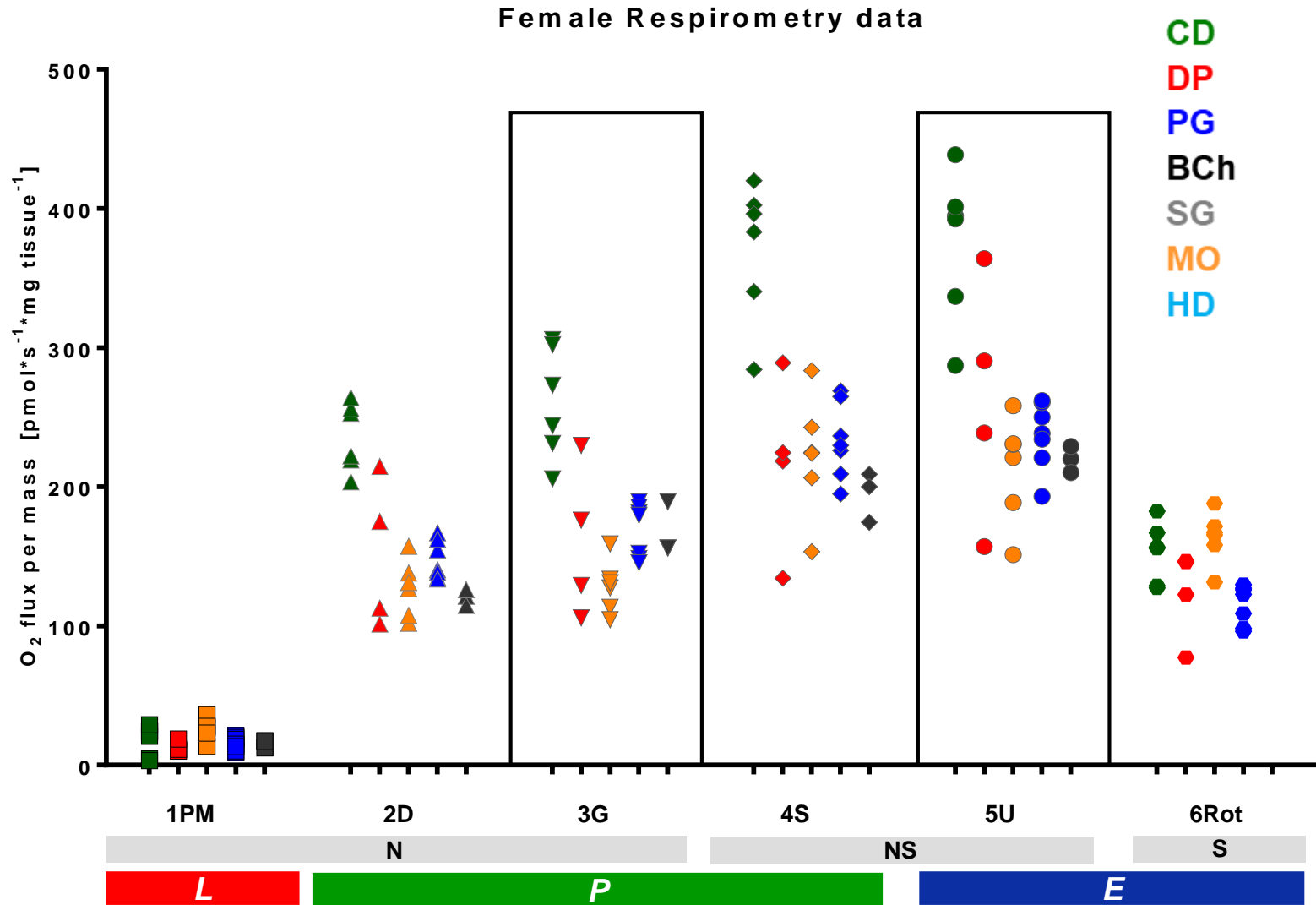
MALE



Male FCR median



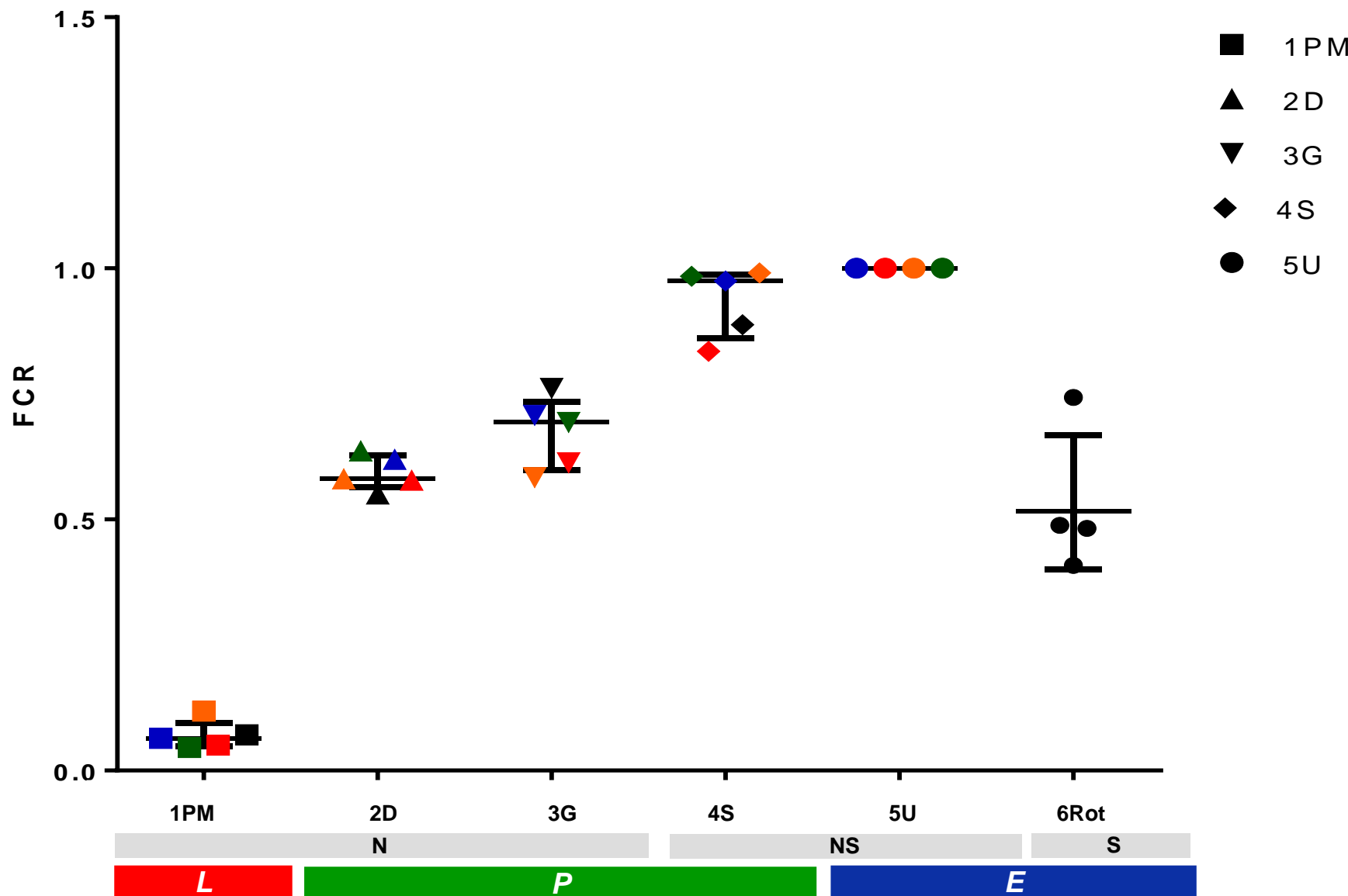
FEMALE



FEMALE



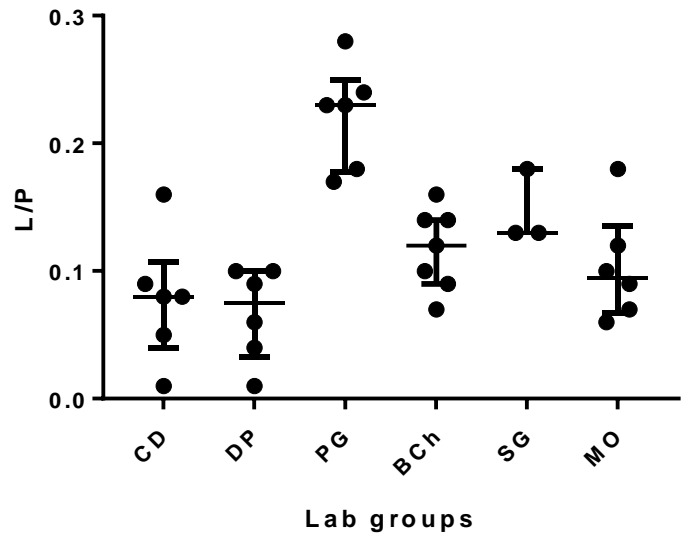
Female FCR median



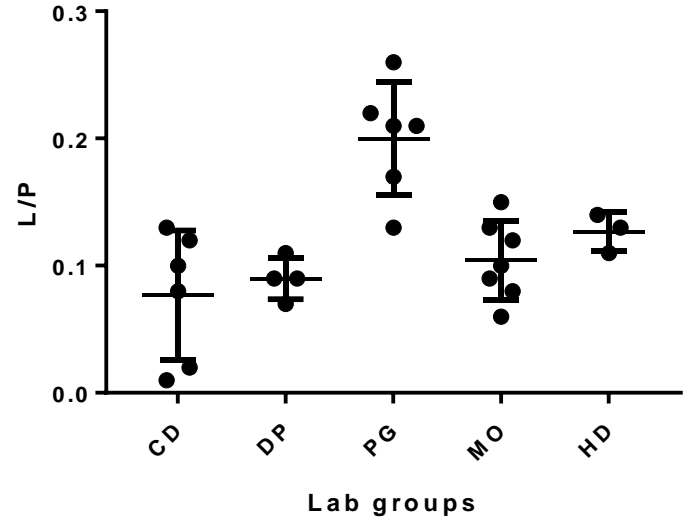
Flux control factors



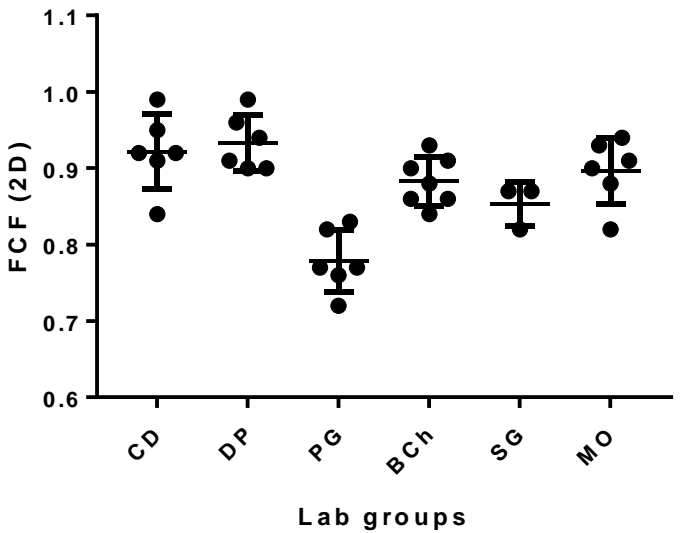
Male L/P



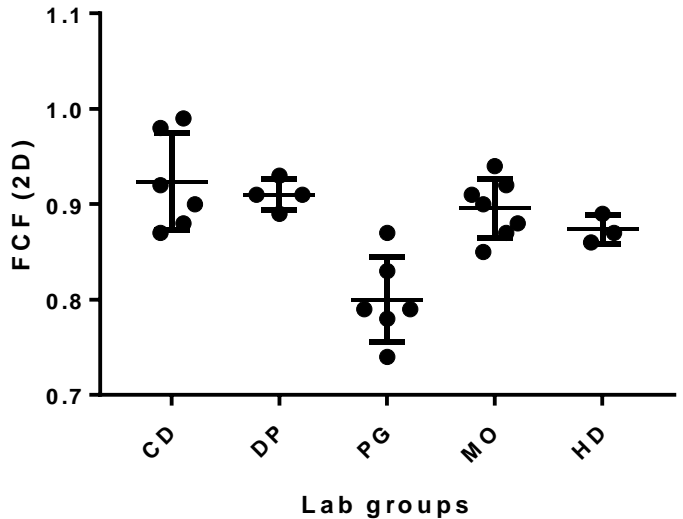
Female L/P



Male FCF(2D)



Female FCF(2D)



Future actions



Potential aspect to improve to reduce variability:

- Reoxygenation of the chamber
- Purity of preparations (connective tissue contamination)
- Muscle wet weight (environmental humidity)
- Chemicals
- Others

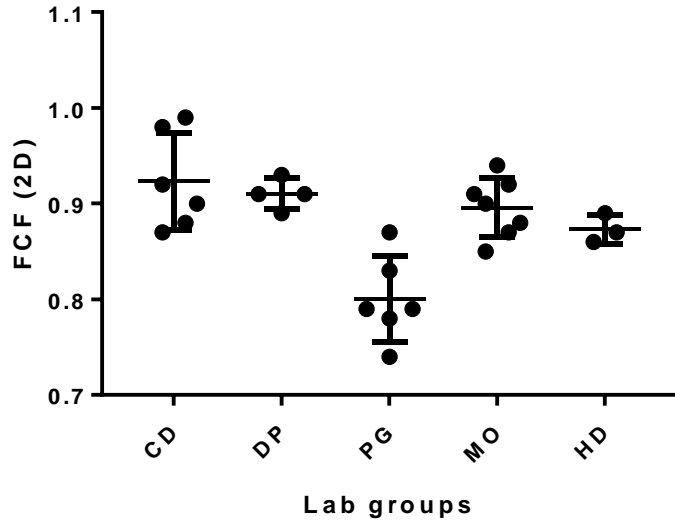
Get a consensus and invite all labs interested on taking part of this study

- Set a deadline for data collection

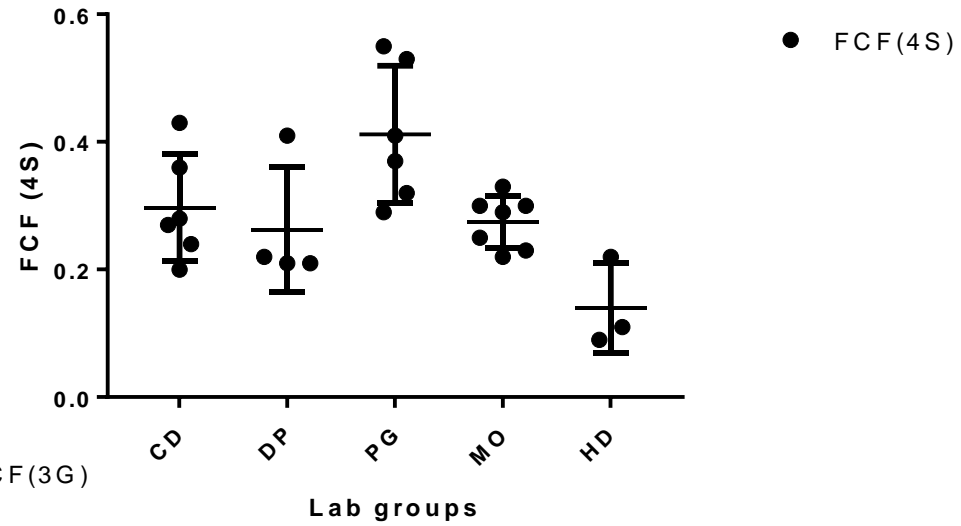
Data analysis and manuscript preparation

FEMALE

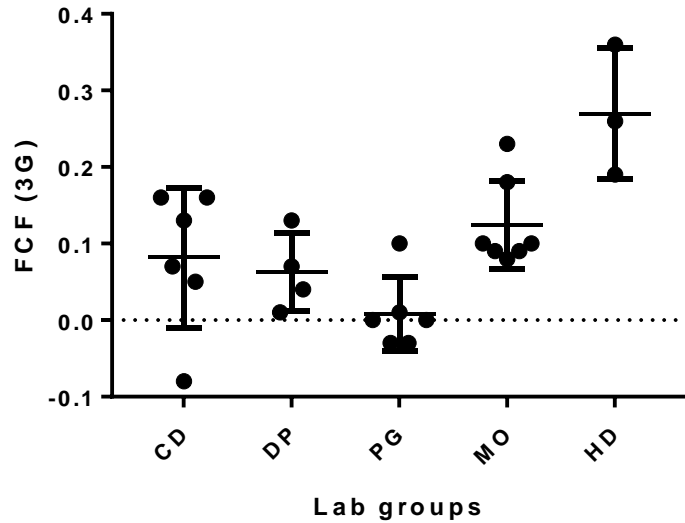
FCF(2D)

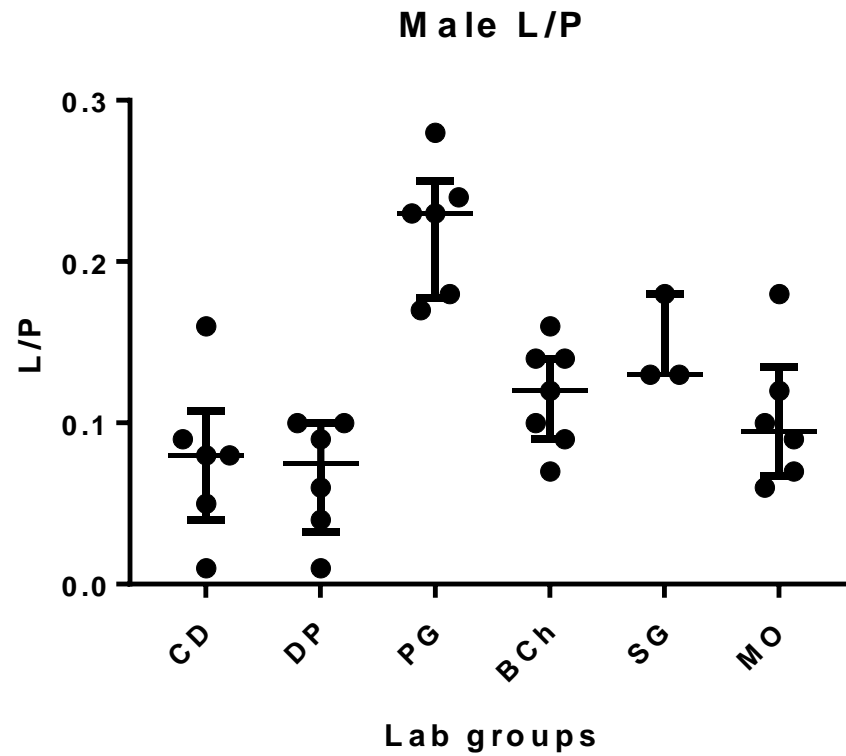


FCF(4S)



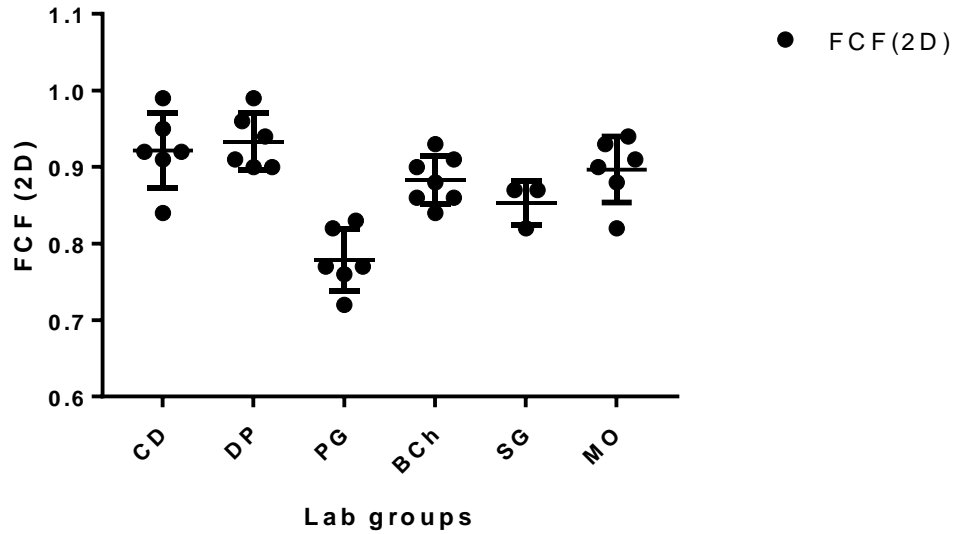
FCF(3G)



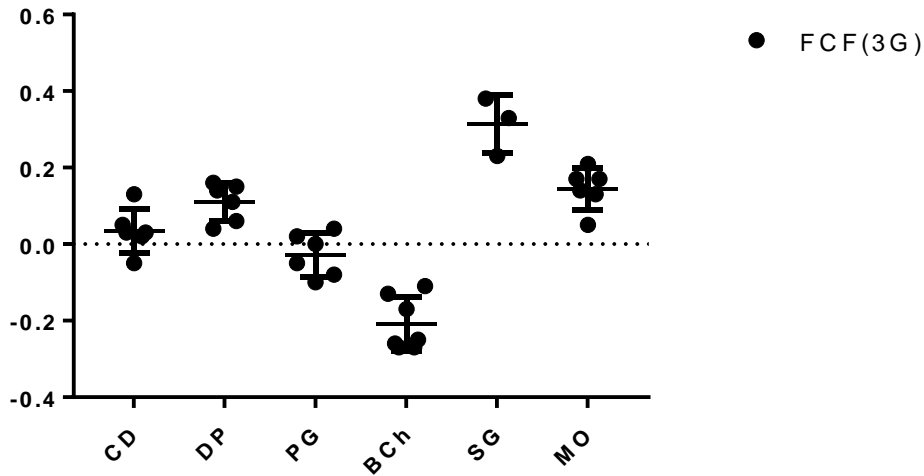


MALE

Male FCF(2D)



Male FCF(3G)



Male FCF(4S)

