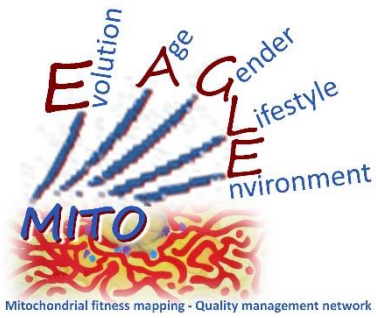
COST Action CA15203 **MitoEAGLE**
**E**volution - **A**ge - **G**ender - **L**ifestyle – **E**nvironment: mitochondrial fitness mapping




**Network discussion forum: cytochrome *c* effect (2018-05-17)**

Within the framework of MitoEAGLE, we would appreciate your contribution in sending us your comments and reference values obtained in your own specific model(s) (control group(s)) regarding the cytochrome *c* effect. We will make all contributions available to the community through the MitoEAGLE website. Detailed information can be found under: http://www.mitoeagle.org/index.php/Talk:WG1_MitoEAGLE_protocols,_terminology,_documentation
Please fill out the questionnaire and send it to carolina.doerrier@oroboros.at
Thank you very much for your contribution.

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|---|---|---|---|---|---|---|---|---|
| **Contact name** | Carolina Doerrier | | | | | | | |
| **Country/ City** | Austria, Innsbruck | | | | | | | |
| **Contact E-Mail** | carolina.doerrier@oroboros.at | | | | | | | |
| | | | | | | | | |
| **Species** | Mouse, C57BL6/J | | | | | | | |
| | **Female** | | | | **Male** | | | |
| **Select gender** | X | | | | X | | | |
| **Tissue (or cell line)** | Soleus | | | | | | | |
| *Info*: **imt**: isolated mitochondria; **pce**: permeabilized cells; **pti**: permeabilized tissue; **pfi**: permeabilized muscle fibers; **thom**: tissue homogenate | **imt** | | **pce** | | **pti** | | **pfi** | **thom** |
| **Select mt-preparation (mt-prep)** | | | | | | | X | |
| *Info*: ET-pathway state (**N**: NADH; S: succinate; **NS**: NADH&succinate; **F**: FAO) | N | | | S | NS | F | | |
| Substrates[*1] | **PM** | **PGM** | **GM** | **S(Rot)** | **PGMS** | **OctM** | **PalM** | **Other** |
| **Select substrates used for cytochrome *c* effect evaluation** | X | | | | | | | |
| **Coupling control state** | **OXPHOS** | | | | **ET** | | | |
| **Select coupling control state used for cytochrome *c* effect evaluation** | X | | | | | | | |
| ***N* (number of mt-prep used for cytochrome *c* effect evaluation)** | *N*=6 | | | | | | | |
| **Cytochrome *c* effect, expressed as FCF*c*[*2] (ideally median and interquartile range)** | **No cytochrome *c* effect**<br>**$PM_P$ → Median = -0.01; IQR =0.05** (**all** data male)<br>**$PM_P$ → Median = 0.01; IQR =0.06** (**all** data female) | | | | | | | |

**Note*1.** Substrate combination abbreviations: PM (pyruvate and malate); PGM (pyruvate, glutamate and malate); GM (glutamate and malate); SRot (succinate and rotenone); PGMS (pyruvate, glutamate, malate and succinate); OctM (octanoylcarnitine and malate); PalM (palmitoylcarnitine and malate).
**Note*2.** To harmonize our results, please provide us the FCF*c** (median and interquartile range).
**FCF*c* calculation:** = (Oxygen consumption after cytochrome *c* addition - Oxygen consumption before cytochrome *c* addition)/ Oxygen consumption after cytochrome *c* addition

For detailed information to cytochrome *c* effect calculation, please see:
http://www.mitoeagle.org/index.php/Talk:WG1_MitoEAGLE_protocols,_terminology,_documentation
http://bioblast.at/index.php/Cytochrome_c_control_factor

**Comments (*any remarks and/or constructive comments are welcome*):**

All data obtained in the experiments are included in the calculation of FCF*c*.