

Nomenclature

need to re-define our nomenclature due to increased complexity of protocols consensus agreement (?):

try to move to "pathway" related nomenclature:

N(ADH) linked pathway capacity

F(fatty acid oxidation) linked pathway capacity

S linked pathway capacity

Joint publications

nomenclature publication: special issue in Mitochondrium – terminology issues

normalization publication

how to get it up and running (?)

selection of terms

collect on a website input

1st respiratory states



MITOEAGLE data management system

MITOEAGLE database: collect as much data as possible on mitochondrial physiology who has the right to deliver data – questionnaire send out which data would we like to get from published studies - raw data put in protocol & experimental sequence to make it comparable to published data - views are presented would that be a solution for already published literature?

Database for original files (Michael): upload DatLab (open to other platforms) files, term search is included, original data are displayed + protocol used values under marks can be retrieved – statistics

Data management in a system biology approach (Pablo):

content management system: database and communication to the webpage integrated analysis tools

Laboratory database (Marko):

track experimental flow (isolation, chemicals, animal history, different measurement on one sample)



Dissemination

university press release?

web page – <u>www.mitoeagle.org</u>

first page will be a more general page giving an overview on the COST action

facebook presence and Twitter

flyer: core group will support in answering the questions (14) necessary for the flyer produced February 2017, available March 2017

special issue in Mitochondrium – terminology issues?

Inclusiveness

attract people from specific countries by supporting them to come to events % of budget (- not fixed yet)



Training

STSM: 1st funding period 6 grants were awarded

2nd funding period:call 01.05.2017

increase budget 35.000 Euro force long term stays

more host laboratories required (MC members)

use STSM to work on issues: compare normalization methods

Sommer School Obergurgl 2017 with the MiPsociety, supported by Medical University IBK (?)

introductory lectures

sessions on specific topics – SOPs

Mentoring program – define it in Barcelona?



Up-coming events

Barcelona: 21 -23 March

science meeting 1st day: talks 10 + 5 min

WG meeting (joined) 2nd day

MC meeting 3rd day

flat rate ???

normalization session

Sommer School Obergurgl: 23 – 30, July 2017

November 2017: MiP conference together with MC meeting 15 -17.11.2017

2 days MiP conference

3rd day WG and MC meeting

Funding: search for companies (spreadsheet)

General remarks



<u>Guidelines and SOPs – WG 2/4 already started</u>

spread sheets are prepared in each WG try to include as many relevant data as possible

specimen

details on preparation

details on measurement parameters

data evaluation......

Qualitative and quantitative evaluation

quality control -

reference samples

titration of substrates

reference protocols

instrumental platform comparison: Michael's approach could help



Mammoth task to make the EAGLE fly





Working group I – Outlook

SOPs

Methods – details should be included

isolation/preparation procedures

define standard media for all steps

define protocols for analysis of mitochondrial respiratory function

Cohort/sample

animal models: implement the EU guidelines on animal work (anesthesia, season, diet)

define cohort – rigorous documentation



Working group I – Outlook

SOPs

Data management

make raw data available?

normalization of data

mg tissue – wet weight/dry weight – can we transform from one to the other cell number, cell size mitochondrial density, volume mt-marker

data evaluation

mean/median statistical evaluation

data reporting terminology/definitions



Working Group I How to reach the goals

MITOEAGLE data management system

TG1.5 Knowledge management system
TG leaders: Drinnan Michael UK / Plattner Christina AT

database including protocols, references, terminology based on bioblast

data management system implemented in the daily routine *Talk of Marko Vendelin*

- strategy implemented in a user requirement document



Working Group I How to reach the goals?

Guidelines

Joint Publications

TG1.1 Coupling states and coupling control ratios: consensus statements

TG leaders: Renner-Sattler Kathrin DE / Gnaiger Erich AT / Hoppel Charles L US

TG1.2 SUIT protocols: nomenclature consistent with concept of database TG leader: Doerrier Velasco Carolina A AT, Gnaiger Erich AT

TG1.3 Experimental details in SUIT

TG leaders: Chicco Adam J US/ Hickey Anthony J NZ/ Doerrier Velasco Carolina A AT



Working group Definitions

Many analyses lack statistical power within a single study. Statistical combination of different studies is often difficult due to lack of methodological standardization and harmonization.



Working group Nomenclature