

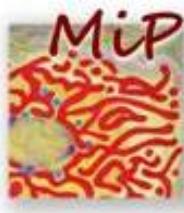
**10th MiPconference
Joint IUBMB/MiP Symposium**

Mitochondrial Physiology

**MiP2014, Obergurgl, Tyrol, Austria
2014 Sep 08 – 12**

Programme

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Page numbers (p 1 - p 80) in the following programme refer to the MiP Book of Abstracts (**Abstract pages**):

Laner V, Gnaiger E, eds (2014) Mitochondrial Physiology – methods, concepts and biomedical perspectives. MiP2014. Mitochondr Physiol Network 19.13: 88 pp.



10+5 min presentations:

Speakers will receive a MiP2014 present if (i) 10 (max. 12) **BEST slides** were selected, (ii) slides were readable from the far back, and (iii) transmission of the key message for MiP is completed within **600 s** (use of SI units is encouraged). +5 min will be reserved for discussions. This will particularly give poster presenters an additional opportunity to discuss their related topics.

Monday, Sept 8 Evening

	Arrival	Abstract pages
17:30	Welcome reception	
19:00	Dinner	
20:25	MiP2014 Opening Chairs: Borutaite Vilmane, Galina Antonio	
20:30 - 20:45	Welcome by Verena Laner and Erich Gnaiger MiP2014	p 1
20:50 - 21:05	Perspective by Bret H Goodpaster The role of mitochondria in human health, aging and preventable diseases	
21:10 - 21:25	MiPArt by Odra Noel - Ivi J Bristot and Erich Gnaiger Mitchell's dream – Mitchell's equation	p 6



Tuesday, Sept 9 Morning

A1	From genotype to mitochondrial phenotypes in health and disease				
08:25	Chairs: Iyer Shilpa, Zorzano Antonio				
08:30 - 08:40	Kowaltowski Alicia J Cardiolipin is a key determinant for mitochondrial DNA stability and segregation.	<u>A1-01</u>	p 9		
08:45 - 08:50	Kruszewski Jakub Complementation of nuclear-encoded proteins which maintain mitochondrial DNA in <i>S. cerevisiae</i> with homologous proteins from other fungi species.	<u>A1-02</u>	p 9		
08:53 - 08:58	Wojtala Aleksandra Proteomic analysis of mitochondrial Complex I deficient mouse model - impact of Complex I deficiency on p66Shc-Ser36 phosphorylation pathway in NDUFS4 ^{-/-} mouse tissues.	<u>A1-05</u>	p 11		
09:00 - 09:10	Eide Lars Reversible mitochondrial DNA mutagenesis.	<u>A1-06</u>	p 12		

09:15 - 09:25	Picard Martin	Quantitative regulation of nuclear gene expression by mitochondrial DNA heteroplasmy.	<u>A1-07</u>	p 12
09:30 - 09:40	Holmström Maria H	Homozygous missense mutation in the human NARS2 gene results in reduced homodimerization of mitochondrial AsnRS enzyme in a patient with Alpers syndrome.	<u>A1-08</u>	p 13
09:45 - 09:55	Pesta Dominik	Dysregulation of muscle ATP synthesis in hypophosphatemic mouse models and in a patient with hypophosphatemia due to a mutation in NaPi2c.	<u>A1-10</u>	p 15
10:00-10:25	<i>Coffee / Tea - Poster viewing</i>			
A2	Mitochondrial structure and function: fission and fusion to supercomplexes			p 16
10:25	Chairs: Mahdaviani Kiana, Pecina Petr			
10:30 - 10:40	Zorzano Antonio	Metabolic implications of mitofusin 2 dysfunction.	<u>A2-01</u>	p 16
10:45 - 10:55	Shirihi Orian	Mitochondrial dynamics and quality control, a conflict of interest.	<u>A2-02</u>	p 16
11:00 - 11:10	Koopman Werner JH	Redox regulation of mitochondrial dynamics and function.	<u>A2-03</u>	p 17
11:15 - 11:25	Mahdaviani Kiana	Hormone-induced mitochondrial fission is utilized by brown adipocytes as an amplification pathway for energy expenditure.	<u>A2-04</u>	p 18
11:30 - 11:40	Ježek Petr	Mitochondrial cristae morphology changes: from Hackenbrock to hypoxia.	<u>A2-05</u>	p 19
11:45 - 11:50	Cherubini Marta	Striatal deregulation of Cdk5 alters mitochondrial dynamics in Huntington's disease.	<u>A2-06</u>	p 20
11:53 - 11:58	Trudeau Kyle	Role of mitochondrial fusion and motility in distributing young mitochondrial protein and removing old protein from the mitochondrial network.	<u>A2-07</u>	p 21
12:00	<i>Lunch - walks & talks</i>			



Tuesday, Sept 9 Afternoon

A3

Mitochondrial response to exercise and aging

p 22

15:25 Chairs: Amoêdo Nivea, Hickey Anthony

15:30 - 15:40 Hepple Russell T

Denervation modulates mitochondrial function when aging A3-01 p 22
muscle atrophy becomes severe: implications for therapeutic intervention.

15:45 - 15:55 Dohlmann Tine

Mitochondrial adaptations to high-intensity training in A3-02 p 22
young and elderly men and women.

16:00 - 16:10 Wohlwend Martin

Exercise modality specific mitochondrial adaptations in A3-03 p 23
skeletal muscle of elderly people.

16:15 - 16:25 Spendiff Sally

Lessons from the master athlete: mitochondrial A3-04 p 24
contributions to aging.

16:30 - 16:40 Larsen Steen

The effect of high intensity training on mitochondrial fat A3-05 p 24
oxidation in skeletal muscle and subcutaneous adipose tissue.

16:45 - 16:55 Coen Paul

Exercise improves insulin sensitivity and muscle A3-06 p 25
mitochondrial respiration following Roux-en-Y gastric bypass surgery.

17:00 *Coffee / Tea - Poster viewing*

A4

Coupling efficiency and mitochondrial respiratory control

p 26

17:25 Chairs: Bresciani Martins de Andrade Paula, Brown Guy C

17:30 - 17:40 Neufer P Darell

Assessing ATP production and oxygen consumption A4-01 p 26
simultaneously in permeabilized fibers: ATP/O.

17:45 - 17:55 Gnaiger Erich

Cell ergometry: biochemical coupling efficiency and A4-02 p 26
respiratory control factors in the intact and permeabilized cell.

18:00 - 18:10 Herbst Eric

Analysis of mitochondrial function in multiple brain regions A4-03 p 28
through *in situ* permeabilization.

18:15 - 18:25 Burtscher Johannes

Region-specific differences in Complex I- and Complex II-linked respiration in the mouse brain. A4-04 p 28

18:30 - 18:40	Schöpf Bernd	OXPHOS analysis in small prostate biopsies.	<u>A4-05</u>	p 29
18:45 - 18:55	Bresciani Martins de Andrade Paula	Mitochondrial function in white adipose tissue: palmitoleic acid (C16:1n7) treatment enhances white adipocyte oxygen consumption.	<u>A4-06</u>	p 31
19:00	<i>Dinner</i>			
20:30	Poster session	<i>PosterGuides A:</i> Felser A, Power A, Mracek T, Holloway G		
		<i>MiPboard business meeting</i>		



Wednesday, Sept 10 Morning

B1	Experimental regimes in functional studies of mitochondrial preparations	<u>p 33</u>
08:25	Chairs: El-Bacha Tatiana, Skulachev Vladimir	
08:30 - 08:40	Perry Christopher GR	Evaluation of critical experimental parameters for assessing <u>B1-01</u> p 33 mitochondrial bioenergetics in permeabilized myofibres.
08:45 - 08:55	Sparks Lauren M	Complementation of nuclear-encoded proteins which <u>B1-02</u> p 33 maintain mitochondrial DNA in <i>S. cerevisiae</i> with homologous proteins from other fungi species.
09:00 - 09:10	MacDonald Julia	The mitochondrial enzyme 4-hydroxy-2-oxoglutarate <u>B1-03</u> p 35 aldolase (HOGA) – involvement in the TCA cycle.
09:15 - 09:25	Sumbalová Zuzana	Optimization of malate concentration for high-resolution <u>B1-05</u> p 37 respirometry: mitochondria from rat liver and brain.
09:30 - 09:40	Volodina Maria	Multipotent stromal cells injection improves rat liver <u>B1-06</u> p 38 regeneration through activation of mitochondrial functions after subtotal hepatectomy.
09:45 - 10:25	<i>Coffee / Tea - Poster viewing</i>	
B2	Are mitochondria sources or sinks of reactive oxygen species?	<u>p 39</u>
10:25	Chairs: Kowaltowski Alicia, Tretter László	
10:30 - 10:40	Skulachev Vladimir P	Mitochondria are sources, rather than sinks, of reactive <u>B2-01</u> p 39 oxygen species. Effects of mitochondria-targeted antioxidants.
10:45 - 10:55	Starkov Anatoly A	Mitochondria as H ₂ O ₂ buffering system. <u>B2-02</u> p 40

11:00 - 11:10 Holloway Graham P

Acute diet-induced insulin resistance is associated with increased adipose tissue mitochondrial ROS emissions. B2-03 p 40

11:15 - 11:25 Houghton Michael

The effect of bioactive phenolics on chronic mitochondrial stress associated with the onset of diabetes. B2-04 p 41

11:30 - 11:40 Jabůrek Martin

The role of phospholipase A2γ in the regulation of mitochondrial uncoupling protein 2-dependent antioxidant function. B2-05 p 42

11:45 - 11:55 Oparka Monika

Investigation of the mitochondrial functions to understand p66Shc and reactive oxygen species interplay in tumor cells. B2-06 p 43

12:00
Lunch – Excursion


Wednesday, Sept 10 Afternoon

B3

Hypoxia, respiration and fermentation - mitochondrial physiology in cellular energetics

p 44

15:25

Chairs: Holmström Maria, Kabir Syed

15:30 - 15:40 Sokolova Inna

Bioenergetic responses to cyclic hypoxia reveal mitochondrial mechanisms of hypoxia tolerance in marine bivalves. B3-01 p 44

15:45 - 15:55 Horscroft James A

Substrate utilisation in the hypoxic heart: a glycolysis/glucose oxidation mismatch? B3-02 p 45

16:00 - 16:10 Galina Antonio

Effects of perinatal asphyxia in mitochondria of brain during development of the central nervous system. B3-03 p 45

16:15 - 16:25 Amoêdo Nivea

The metabolic panorama during tumor progression towards malignancy. B3-04 p 46

16:30 - 16:35 Grefte Sander

Myotube formation does not require mitochondrial ATP production but is inhibited by rotenone via the Rho-associated, coiled-coil containing protein kinase II. B3-07 p 49

16:38 - 16:43 Timón-Gómez Alba

The function of mitochondrial pyruvate carriers in the adaptation of respiration capacity and stress tolerance in yeast. B3-08 p 49

16:45
Coffee / Tea - Poster viewing

B4	Instrumental platforms: developments and applications in mitochondrial physiology	p 51
17:25	Chairs: Timon-Gomez Alba, Shirihai Orian	
17:30 - 17:40 Felser Andrea	Assessing mitochondrial dysfunction in fibroblast cells – a comparison between O2k and multiwell respirometry.	<u>B4-01</u> p 51
17:45 - 17:55 Widlund Anne L	Resveratrol as a double edged sword on mitochondrial function.	<u>B4-02</u> p 51
18:00 - 18:10 Hickey Anthony J	Mitochondrial inefficiencies and anoxic ATP hydrolysis capacities in diabetic rat heart.	<u>B4-05</u> p 53
18:15 - 18:25 Harrison David K	The relationship between cytochrome redox state and oxygen consumption in isolated mouse and beef heart mitochondria during hypoxia.	<u>B4-06</u> p 54
18:30	<i>Poster viewing</i>	
19:00	<i>Dinner</i>	
20:30	Poster session <i>PosterGuides B and C:</i> MacDonald J, Oparka M, Wieckowski M, Jezek P	



Thursday, Sept 11 Morning

C1	Blood cells and cultured cells as models for diagnosis of mitochondrial pathologies	p 56
08:25	Chairs: Alberici LC, Ojuka Edward	
08:30 - 08:40 Pecina Petr	Manifestation of mitochondrial disorders of nuclear origin in lymphocytes.	<u>C1-01</u> p 56
08:45 - 08:55 Eggimann Sandra	Adaptation to nutrient availability in human fibroblasts with mitochondrial dysfunction: the role of sirtuins.	<u>C1-03</u> p 57
09:00 - 09:10 Bristot Ivi J	High-resolution respirometry and bioenergetics evaluation in fibroblasts derived from patients with TP53 germline mutations.	<u>C1-04</u> p 58
09:15 - 09:25 Paju Kalju	Characterization of the effects of pro-inflammatory cytokines on energy metabolism in human myoblasts.	<u>C1-05</u> p 59
09:30 - 09:40 Brown Guy C	Complex I inhibition in microglia and inflammatory neuronal loss.	<u>C1-07</u> p 61
09:45 - 10:25	<i>Coffee / Tea - Poster viewing</i>	

C2	Integrity of mitochondrial preparations and experimental quality control	p 62
10:25	Chairs: Sumbalova Zuzana, Perry Christopher	
10:30 - 10:40 Borutaite Vilmante	Controversies regarding the cytochrome c test for mitochondrial membrane integrity.	<u>C2-01</u> p 62
10:45 - 10:55 Lai Nicola	Improved isolation of high quality subsarcolemmal and interfibrillar mitochondria from skeletal muscle.	<u>C2-05</u> p 66
11:00 - 11:10 Meszaros Andras	Methodological aspects of assessing mitochondrial function in small intestinal mucosal samples of rats and guinea pigs.	<u>C2-06</u> p 67
11:15 - 11:25 Figueira Tiago R	Mitochondrial respiration and calcium transport in rat tissues: conversely from skeletal muscle, heart and brain, isolated liver mitochondria exhibit gender dimorphism in respiratory activity.	<u>C2-07</u> p 68
11:30 - 11:40 Kane Daniel A	Assessing mitochondrial lactate oxidation in permeabilized skeletal muscle fibers highlights important experimental considerations: malate concentration and	<u>C2-02</u> p 62
11:45	<i>Lunch -- walks & talks</i>	



Thursday, Sept 11 Afternoon

C3	Physiological and pharmacological intervention with mitochondrial function	p 69
13:25	Chairs: Widlund Anne Lykkegaard, Neufer P Darrel	
13:30 - 13:40 Brown David A	The cardiolipin-targeting peptide Bendavia preserves post-ischemic mitochondrial energetics by sustaining respiratory supercomplexes.	<u>C3-01</u> p 69
13:45 - 13:55 El-Bacha Tatiana	Cytotoxicity of grape pomace extract (<i>Vitis vinifera L.</i>) from Brazilian wine industry in human hepatocarcinoma HepG2 cells.	<u>C3-03</u> p 70
14:00 - 14:05 Jaña Prado Fabián	Defining the role of mitochondrial electron transfer Complex I on the modulation of Ca ²⁺ homeostasis: effects of metformin on cancer cell metabolism.	<u>C3-04</u> p 71
14:08 - 14:13 Purhonen Janne	Effect of ketogenic diet in mouse model of the mitochondrial hepatopathy GRACILE syndrome.	<u>C3-05</u> p 72

14:15 - 14:25	Contreras-Ferrat Ariel	Insulin increases mitochondrial calcium levels regulating both mitochondrial function and intracellular signaling in muscle; this effect is disrupted in fibers from short-term high fat diet fed mice.	<u>C3-06</u>	p 73
14:30 - 14:40	Roy Sib S	Differential expression of mitochondrial transporter proteins leads to incomplete fatty acid oxidation and insulin resistance in palmitate-treated muscle cells.	<u>C3-07</u>	p 74
14:45 - 14:55	Kabir Syed N	Declining follicular reserve triggers mitochondrial pathway of granulosa cell apoptosis and accelerates the rate of follicular decay high fat diet fed mice.	<u>C3-10</u>	p 77
C4	Diagnosis and prevention of mitochondrial dysfunction			p 79
15:25		Chairs: Sparks Lauren, Koopman Werner		
15:30 - 15:40	Tretter László	Cool or heat? Bioenergetic and ROS homeostatic approach to therapeutic hypothermia.	<u>C4-01</u>	p 79
15:45 - 15:55	Power Amelia	The hot heart: cardiac mitochondrial energetics during hyperthermia.	<u>C4-02</u>	p 80
16:00 - 16:05	Mráček Tomas	Function of mitochondrial energy provision apparatus is compromised in patients with chronic heart failure.	<u>C4-03</u>	p 80
16:08 - 16:13	Wieckowski Mariusz R	Understanding the utility and limitations of autopsy samples for mitochondrial studies - evaluation of oxidative stress in the central nervous system of patients with diagnosed or highly probable mitochondrial diseases.	<u>C4-04</u>	p 81
16:15 - 16:25	Kluckova Katarina	Proximal ubiquinone binding site in mitochondrial respiratory Complex II is a target for vitamin E analog MitoVES, an experimental anti-cancer agent.	<u>C4-05</u>	p 81
16:30 - 16:40	Stiban Johnny	Very long chain ceramides interfere with C16 ceramide-induced channel formation: rheostatic control of apoptosis.	<u>C4-06</u>	p 82
16:45 - 16:55	Iyer Shilpa	Bioenergetics: arts meets gentle science in sickness and in health.	<u>C4-07</u>	p 83
17:00	<i>Coffee</i>			
17:30 - 18:55	General MiPsociety Agenda - Conclusions	Next conference: MiP2015; MiPschools 2015		p 84
19:00	<i>Dinner</i>			
20:30	<i>Social evening</i>	Poster Awards - presented by PosterGuides and MiPboard		

Posters

Kruszewski Jakub: Complementation of nuclear-encoded proteins which maintain mitochondrial DNA in <i>S. cerevisiae</i> with homologous proteins from other fungi species.	A1-02	p 9
Zapisek Bartosz: YER077C encodes a novel PPR protein essential for mitochondrial genome expression in <i>Saccharomyces cerevisiae</i> .	A1-03	p 10
Balážová Mária: Balanced ratio of anionic mitochondrial phospholipids is important for mitochondrial functions in the yeast <i>Saccharomyces cerevisiae</i> .	A1-04	p 11
Houštěk Josef: Alteration of structure and function of ATP synthase and cytochrome c oxidase by lack of Fo-a and Cox3 subunits caused by mitochondrial DNA 9205delta mutation.	A1-09	p 14
Cherubini Marta: Striatal deregulation of Cdk5 alters mitochondrial dynamics in Huntington's disease.	A2-06	p 20
Trudeau Kyle: Role of mitochondrial fusion and motility in distributing young mitochondrial protein and removing old protein from the mitochondrial network.	A2-07	p 21
Herminghaus Anna: Severity of polymicrobial sepsis modulates mitochondrial function in rat liver.	A4-07	p 32
Komlódi Tímea: Methylenblue, an enhancer of mitochondrial substrate-level phosphorylation.	B1-04	p 36
Rodrigues Mariana F: Bioenergetics' traits of tongue cancer metastatic cells.	B3-05	p 48
Kandashvili Manana: Regulation of energy metabolism in human colorectal cancer cells in situ.	B3-06	p 48
Grefte Sander: Myotube formation does not require mitochondrial ATP production but is inhibited by rotenone via the Rho-associated, coiled-coil containing protein kinase II.	B3-07	p 49
Timón-Gómez Alba: The function of mitochondrial pyruvate carriers in the adaptation of respiration capacity and stress tolerance in yeast.	B3-08	p 49
Krumschnabel Gerhard: OXPHOS analysis in small prostate biopsies.	B4-04	p 53
Hahn Dagmar: Validation of oxygen consumption measurements in muscle and fibroblasts from patients with mitochondrial diseases.	C1-02	p 57
Nagy Adam M: Investigation of the energy metabolism of microglial cells.	C1-06	p 60
Laner Verena: Cytochrome c flux control factor as a quality criterion in respiratory OXPHOS analysis in canine permeabilized fibres.	C2-03	p 63
Lai Nicolai: Bioenergetic differences between permeabilized red and white fibers of a non-obese model of type II diabetes.	C2-04	p 65
Maddalena Lucas A: Experimental considerations for evaluating bioenergetic effects of a mitochondria-targeted compound, TPP-IOA.	C3-02	p 70
Purhonen Janne: Effect of ketogenic diet in mouse model of the mitochondrial hepatopathy GRACILE syndrome.	C3-05	p 72
Alberici Luciane C: Effects of long-chain acyl-CoA synthetase 6 knockdown in primary skeletal muscle cells metabolism.	C3-08	p 75
Ferreira Gustavo C: Impairment of bioenergetic parameters induced by acute carnosine administration in skeletal muscle of young rats.	C3-09	p 76

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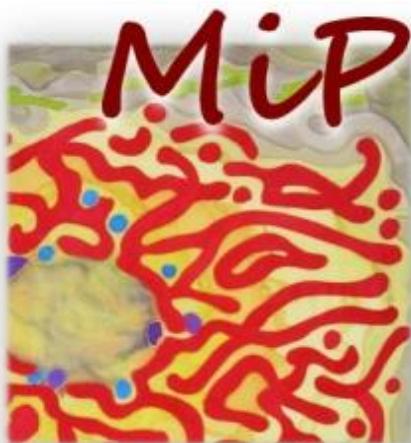
MiPsociety agenda

MiP2014

Thursday, Sept 11 – all participants are invited

Topics

1. MiP2014 Conclusions
2. MiPmembership
3. Upcoming MiPevents
 - MiP2015 Conference September (CZ)
 - MiPschool 2015 April (UK)
 - MiPschool 2015 August (US)
 - MiP2017 Conference
4. Next general assembly of the MiPsociety with elections: MiP2015 Conference
5. Miscellaneous



MiPArt by Odra Noel

Friday, Sept 12 Morning

Departure

Breakfast - Departure

IOC95 OROBOROS O2k-Workshop on O2k-Fluorometry

Sep 12-16

» http://wiki.oroboros.at/index.php/MiPNet19.10_IOC95

www.mitophysiology.org/?MiPcalendar



MiPschools 2015

8th MiPschool on Mitochondrial Physiology

20 to 24 Apr 2015

**University College
London, UK**

Organizer: Michael Duchen (*University College London, UK*), The MiPsociety.
Email: m.duchen@ucl.ac.uk

www.bioblast.at/index.php/MiPschool_London_2015

9th MiPsummer School on Mitochondrial Physiology

10 to 14 Aug 2015

**East Carolina Diabetes and Obesity Institute
East Carolina University
Greenville, NC, USA**

Organizer: P Darrell Neufer (*East Carolina Diabetes Obesity Inst, East Carolina University, Greenville, NC, USA*), The MiPsociety.
Email: neuferp@ecu.edu

www.bioblast.at/index.php/MiPschool_Greenville_2015



MiP2015

The next world-summit on Mitochondrial Physiology

11th Conference on Mitochondrial Physiology

07 to 11 Sep 2015, Luční Bouda, Czech Republic

Organizers: Petr Pecina, Tomas Mráček, Josef Houštěk (*Inst Physiol, Czech Academy of Sciences, CZ*), The MiPsociety.
Email: petr.pecina@biomed.cas.cz

www.bioblast.at/index.php/MiP2015



Location: Luční Bouda (Meadows Chalet; 1410 m - <http://www.lucnibouda.cz/en>) is located in the Giant Mountains National Park. Luční Bouda is reached from Prague in 2.5 hours. Participants **arriving in Prague on Sunday Sep 6** will enjoy a social programme with a visit of the city centre and a boat trip. Transfer by bus from Prague to the conference venue will be arranged with several departures throughout Monday, adjusted to participants' travel arrangements with arrival before the conference opening in the evening, to enjoy a taste of PAROHÁČ (The STAG) – the locally brewed beer. Bus return transfer to Prague, early morning departure from Luční Bouda.

Number of participants: 120.

Acknowledgements

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MiPsupport



Leading
Mitochondrial
Medicine

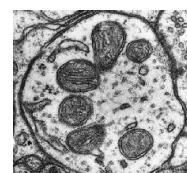
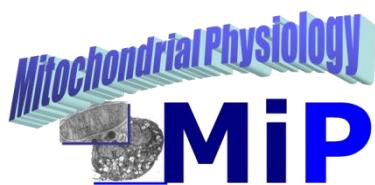


Standortagentur
Convention Bureau



MEDIZINISCHE
UNIVERSITÄT
INNSBRUCK

MiPcooperation



Mitochondria Interest Group
LISTSERV@LIST.NIH.GOV

Mitochondrial Global Network – MitoGlobal



www.bioblast.at /index.php/Mitochondrial Global Network

the world-wide information platform for scientific mitochondrial organizations

