



MiP2023 Obergurgl AT

Obergurgl AT. 2023 Jul 27-30. 15th MiPconference: Bioenergetics Communications on **mitObesity and Healthy Aging**. - cover-to-cover following the MiPSchool Obergurgl 2023



» Mitochondrial Physiology Society

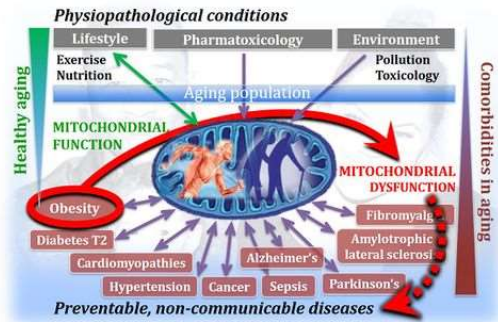
Mitochondrial Physiology Society (2023-07-27) MitoGlobal

Abstract: **MiP2023, Obergurgl, Austria, 2023.**

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mitObesity: Obesity and decline of mitochondrial fitness



General Information

- Join the MiPSchool Obergurgl 2023
 - Remember
 - MiP 2014 Obergurgl, AT; Photo gallery
 - MiP 2013 Obergurgl, AT; MiP2013 Abstracts; **Walker John E (2013) Generating the fuel of life**
 - MiP 2010 Obergurgl, AT; **Bioblasts – the aliens with permanent residence in our cells**
- » and 20 years ago: **MiP 2003** (https://wiki.oroboros.at/images/1/10/MiPNet08.10_MiP2003-Abstracts.pdf)

Venue

University Center Obergurgl (<https://www.uibk.ac.at/uz-obergurgl/>)
Gaisbergweg 5
6456 Obergurgl
Tyrol, Austria

Travel info

To guarantee a smooth transport from Innsbruck to Obergurgl, please arrange your arrival time in Innsbruck according to our travel info below.

- When and how to travel? » [Click here for travel info](#)

Registration

Register for MiPconference only here (<https://www.oroboros.at/index.php/mipconference-registration/>) or for both MiPevents here (<https://www.oroboros.at/index.php/mipschool-and-mipconference-registration/>).



Abstract submission

Abstracts accepted until event is full.

Submissions of original contributions on mitObesity and Healthy Aging for the MiP2023 conference are welcomed.

Format:

Abstracts up to 250 words with DOI of collected abstracts, which may be extended to full BEC articles.

» Guidelines and submission portal (<https://www.bioenergetics-communications.org/index.php/bec/mip2023>)

Student travel award

What? Up to 350 EUR to cover travel costs to attend MiPschool or MiP2023.

Who is eligible to apply? Undergrad and graduate students who have registered for either or both events.

How? Apply by registering for a 2023 MiPevent, submitting an abstract and sending a short application letter to society@mitophysiology.org (mailto:society@mitophysiology.org). Applications without registrations will not be considered.

When? Registrations, abstracts and application letters must be received by July 9th. Students selected to receive the award will be notified by July 14th.

Presentation and poster guidelines

Presentation and PPT

- **Oral presentations**



- Duration for invited speakers: 20 min (+5 min questions)
- Duration oral presentations selected from abstracts: 10 min (+5 min questions)
- Aspect ratio for slides: 16:9
- Use either PowerPoint or Keynote
- A laptop for your presentation is provided
- If you work with a Mac please bring your own computer
- Ensure you bring an adapter for your device with HDMI connection, VGA to HDMI is provided
- Please make sure you do not go overtime
- Media check to hand in your slides in the morning of the conference is possible

Poster

- Please bring your poster in size A0, portrait.

Local organizers



Gnaiger Erich, Chair MiPsociety, Oroboros Instruments, AT



Laner Verena, General Secretary MiPsociety, Oroboros Instruments, AT



Timon-Gomez Alba, Oroboros Instruments, AT

Program

The topic of the 15th MiPconference is: Bioenergetics Communications on mitObesity and Healthy Aging.

Furthermore, the General Assembly of the MiPsociety (https://www.mitophysiology.org/index.php/Mitochondrial_Physiology_Society) will take place during the conference.

A meeting with the BEC editorial board (<https://www.bioenergetics-communications.org/index.php/bec/about/editorialTeam>) will take place.

Program-at-a-glance

Time	Thursday Jul 27	Friday Jul 28	Saturday Jul 29	Sunday Jul 30
07:00	A	Breakfast	Breakfast	Breakfast
08:30	R	Session A1	Session B1	D
10:00	R	Coffee	Coffee	E
10:30	I	Session A2	Session B2	P
12:00	V	Lunch packages	Lunch packages	A
13:30	A	Walks and talks	Walks and talks	R
	L	MiP Business Meeting	BEC meeting	T
15:30		Session A3	Session B3	U
17:00		Coffee	Coffee	R
17:30	Welcome reception	Session A4	Session B4 / Conclusions	E
19:00	Dinner	Dinner	Dinner	
20:30	Opening	Poster session	Social evening / Poster Awards	

Social event

We are happy to announce that the 'Trachtengruppe Umhausen' (translated: Folk group Umhausen) will perform traditional Tyrolean dance at its best.



Special Issue



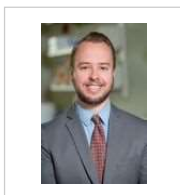
We invite original articles to be published in a special issue of Bioenergetics Communications on 'mitObesity and Healthy Aging':

» BEC author guidelines (<https://www.bioenergetics-communications.org/index.php/bec/authorguidelines>)

Oral presentations will be preferentially selected from MitoFit Preprints/BEC contributions.

- Submit manuscripts by June 30th via submission portal (<https://www.bioenergetics-communications.org/index.php/bec/about/submissions>)

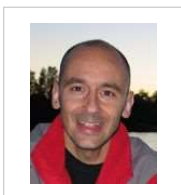
Invited speakers



Axelrod Christopher L., Pennington Biomedical Research Center, US



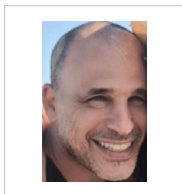
Chicco Adam J., Colorado State University, US



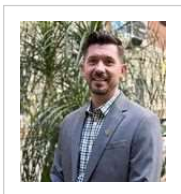
Garcia-Roves Pablo Miguel, University of Barcelona and Bellvitge Biomedical Research Institute, ES



Gnaiger Erich, Oroboros Instruments, AT



Gross Atan, Weizmann Institute, IL



Holloway Graham P., University of Guelph, CA



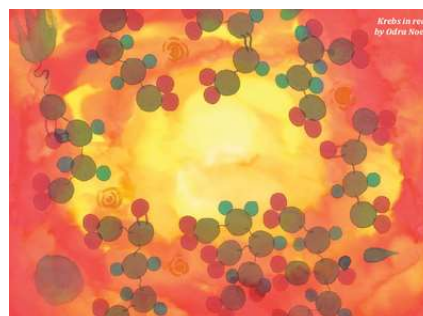
Karabatsiakis Alexander, University of Innsbruck, AT

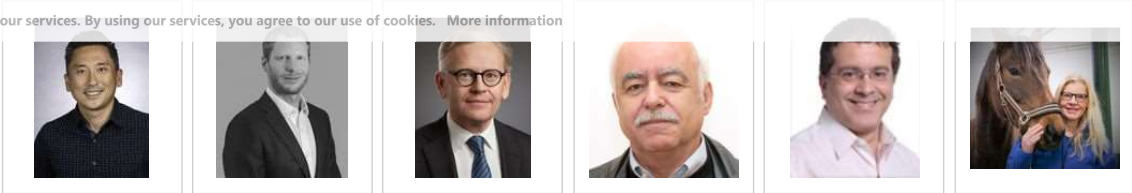


Kayser Bengt, Université de Lausanne, CH



Larsen Steen, University of Copenhagen, DK





Molina Anthony JA, University of California San Diego, California, US

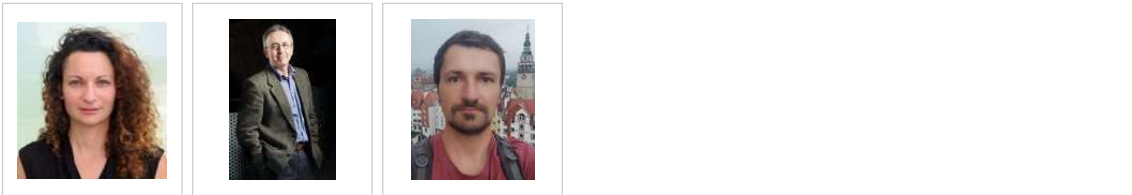
Zesta Dominik, Institute of Aerospace Medicine, German Aerospace Center, DE

Roden Michael, Heinrich Heine University and German Diabetes Center, Düsseldorf, DE

Schoenfeld Peter, former University of Magdeburg, DE

Shirihai Orian, University of California, Los Angeles, US

Votion Dominique-Marie, University of Liège, BE



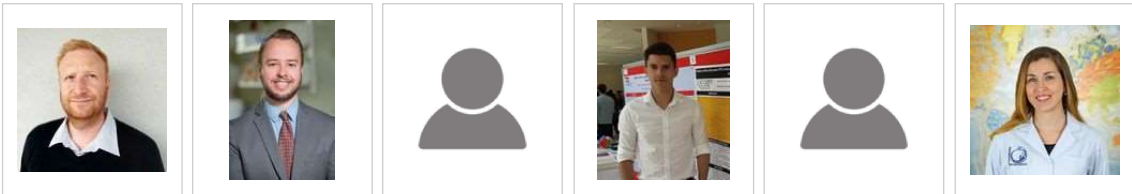
Yardeni Tal, Sheba Medical Center, Ramat Gan, IL

Zorzano Antonio, CIBER de Diabetes y Enfermedades Metabólicas Asociadas, Barcelona, ES

Zouhar Petr, Institute of Physiology CAS, CZ

Participants - alphabetical order

tbc



Alan Lukas, Czech Academy of Sciences, CZ

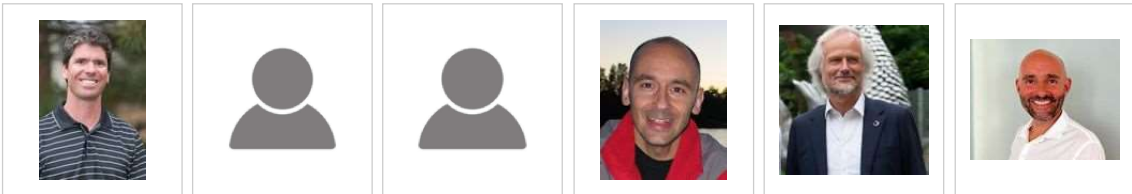
Axelrod Christopher L, Pennington Biomedical Research Center, US

Barkova Daria, Biomedical Research Center Slovak Academy of Sciences, SK

Brunetta Henver Simonato, University of Campinas, BR

Canellas da Silva Maria Clara, University of Maryland College Park, US

Cardoso Luiza HD, Oroboros Instruments, AT



Chicco Adam J, Colorado State University, US

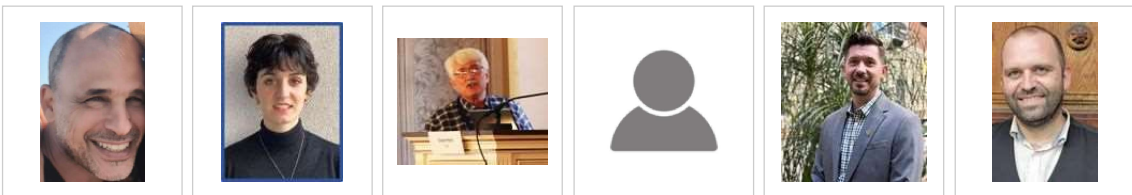
Court Sebastien, University of Innsbruck, AT

Court Tatyana, Masaryk University, CZ

Garcia-Roves Pablo Miguel, University of Barcelona and Bellvitge Biomedical Research Institute, ES

Gnaiger Erich, Oroboros Instruments, AT

Granata Cesare, German Diabetes Center (DDZ), DE



Gross Atan, Weizmann Institute, IL

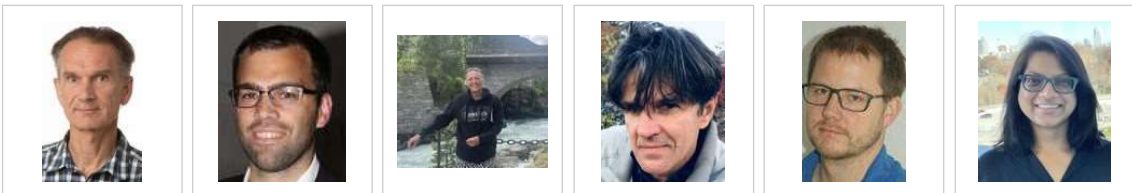
Guerrier Lisa, Université Clermont Auvergne, FR

Hand Steven C, Louisiana State University, US

Handler Alyssa, Stealth Biotherapeutics, US

Holloway Graham P, University of Guelph, CA

Karabatsiakis Alexander, University of Innsbruck, AT



Kayser Bengt, Université de Lausanne, CH







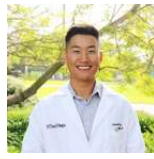























Keller Markus A, Medical University of Innsbruck, AT

Kollberg Gittan, Sahlgrenska University Hospital, SE





Kolonics Attila, University of Physical Education, HU

Larsen Steen, University of Copenhagen, DK

Mahapatra Gargi, University of California San Diego, US

					
Molina Anthony JA , University of California San Diego, California, US	Othonicar Murilo F , UNESP- São Paulo State University, BR	Owesny Patricia , German Institut of Human Nutrition Potsdam-Rehbrücke (DIfE), DE	Pena Gabriel , University of Maryland College Park, US	Pestak Dominik , Institute of Aerospace Medicine, German Aerospace Center, DE	Petrick Heather L , University of Guelph, CA
					
Phang Howard J , University of California San Diego, US	Piel Sarah , University Hospital Düsseldorf, DE	Pytlak Karolina , Polish Academy of Sciences, PL	Romero Martinez Alejandra , VASCage GmbH, AT	Sadler Daniel , University of Arkansas for Medical Sciences, US	Suacedo-Rodriguez Maria Jose , Charles University, CZ
					
Schoenfeld Peter , former University of Magdeburg, DE	Shbiro Liat , Sheba Medical Center, IL	Shirihai Orian , University of California, Los Angeles, US	Sobotka Lubos , Charles University, CZ	Stanic Sara , Institute of Physiology of the Czech Academy of Sciences, CZ	Stankova Pavla , Charles University, CZ
					
Stiles Linsey , University of California, Los Angeles, US	Timon-Gomez Alba , Oroboros Instruments, AT	Valencia Ana P , University of Washington, US	van der Stelt Inge , Wageningen University, NL	Votion Dominique-Marie , University of Liège, BE	Vujacic-Mirski Ksenija , GANZIMMUN Diagnostics GmbH, DE
					
Weinberger Klaus M , Health Hub Tirol GmbH, AT	Whitcomb Luke A , Colorado State University, US	Wohlfarter Yvonne , Medical University of Innsbruck, AT	Yardeni Tal , Sheba Medical Center, Ramat Gan, IL	Zorzano Antonio , CIBER de Diabetes y Enfermedades Metabólicas Asociadas, Barcelona, ES	Zouhar Petr , Institute of Physiology CAS, CZ

Oral presentations

	Title
Votion 2023 MIP2023	 Serum acylcarnitines profile for diagnosis, prognosis and monitoring therapeutic intervention in equine atypical myopathy.
Alan 2023 MIP2023	 Dynamic complexomic analysis reveals a role for Von Willebrand Domain-containing Protein 8 (Vwa8) in mitochondrial morphology and substrate preference.
Karabatsiakis 2023 MIP2023	 Combined metabolite and lipid fingerprinting of blood serum reveals biomarker candidates of altered mitochondrial bioenergetics in peripheral blood mononuclear cells of female patients with depression.
Gross 2023 MIP2023	 M(a)TCH2-ing up metabolism and apoptosis at the MOMbrane.

Axelrod 2023 MiP2023



Circulating muscle mitochondrial dysfunction in obesity and type 2 diabetes.

Kayser 2023 MiP2023



Obesity and hypoxia: from etiology to therapy.

Brunetta 2023 MiP2023



Chronic aerobic training reverts the negative effects of high-fat high-sucrose diet on the left ventricle of adipocyte-specific DICER knockout mice in association with improved mitochondrial function

Cardoso 2023 MiP2023



Electron transfer from beta-oxidation and TCA cycle and impact of OXPHOS coupling on NADH and coenzyme Q redox states.

Chicco 2023 MiP2023



Delta-6 desaturase inhibition reverses aberrant cardiolipin remodeling and mitochondrial dysfunction in the obese mouse heart.

Gnaiger 2023 MiP2023



From globesity to mitObesity.

Garcia-Roves 2023 MiP2023



Remission of obesity and insulin resistance. Is that enough?

Holloway 2023 MiP2023



Mitochondrial bioenergetics as a nexus-point for the beneficial effects of nitrate in diverse tissues.

Granata 2023 MiP2023



Novel mitochondrial respiration protocols reveal organ-specific reliance on ketone body metabolism in mice.

Guerrier 2023 MiP2023



Human white adipose tissue mitochondrial respiration: effect of body composition

Hand 2023 MiP2023



Oxidative stress and repetitive metabolic transitions: Challenges due to lifestyle of invertebrate extremophiles.

Keller 2023 MiP2023



Exploring the influence of the lipid environment on mitochondrial membrane structure and function.

Vujacic-Mirski 2023 MiP2023



Bioenergetics health index and parameters of mitochondrial respiration in relatively healthy individuals. Insight in mitochondrial respiration for diagnosis and future targeted treatments.

Larsen 2023 MiP2023



Mitochondrial adaptations to weight loss – lifestyle, surgery or medication.

Sobotka 2023 MiP2023



Mahapatra 2023 MiP2023



Platelet bioenergetics reveals distinct systemic bioenergetic capacities associated with insulin sensitivity in older adults.

Molina 2023 MiP2023



Targeting exercise intolerance in older, obese, heart failure patients.

Owesny 2023 MiP2023



Impairment of cardiac function and mitochondrial energy metabolism through diet induced obesity in aging.

Pesta 2023 MiP2023



Respiratory capacity of skeletal muscle and peripheral blood mononuclear cells of male and female individuals with type 2 diabetes.

Petrick 2023 MiP2023



Age- and sex-related differences in mitochondrial ADP sensitivity in human skeletal muscle.

Roden 2023 MiP2023



Alterations of mitochondrial function in obesity, fatty liver diseases and diabetes.

Sadler 2023 MiP2023



Early life exercise training counters metabolic perturbations imparted by low parental cardiorespiratory fitness.

Saucedo-Rodríguez 2023 MiP2023



Effect of succinate dehydrogenase deficiency on mitochondrial function.

Schoenfeld 2023 MiP2023



A view on brain's problem with fatty acid burning.

Shirihai 2023 MiP2023



Inhibition of ATP synthase hydrolytic activity restores cellular energy homeostasis in conditions of impaired respiration.

Stankova 2023 MiP2023



Effect of telmisartan on nutritionally induced nonalcoholic steatohepatitis in mice.

Yardeni 2023 MiP2023



The host immune system and the gut microbiota are regulated by the mitochondrial DNA.

Timon-Gomez 2023 MiP2023



Substrate-uncoupler-inhibitor titration protocol for analyzing carbohydrate and fatty acid metabolism

Whitcomb 2023 MiP2023



Polysaturated fatty acid metabolism contributes to age-related impairment of cardiac mitochondrial calcium tolerance.

Wohlfarter 2023 MiP2023



The fatty acid nature of HSCD10 in cardiolipin biosynthesis and mitochondrial function.

Zouhar 2023 MiP2023



Major site of non-shivering thermogenesis: brown fat or skeletal muscle?

Valencia 2023 MiP2023



T-cell mitochondria exhibit a functional decline with obesity that is aggravated by weight loss.

Poster presentations

Title

Kolonics 2023 MiP2023



Accelerated epigenetic changes may contribute to the development of metabolic syndrome revealed by NADH FLIM.

Piel 2023 MiP2023



Effect of dimethyl fumarate on cerebral mitochondrial metabolism in a porcine model of pediatric in-hospital cardiac arrest.

Pytlak 2023 MiP2023



Mitochondrial defect in human bronchial epithelial cells lacking the BK_{Ca} channel.

Barkova 2023 MiP2023



Effects of short term and long term aerobic-strength training on muscle metabolism in the elderly.

Abstracts in review

International Committee

- **Axelrod Christopher L**, Pennington Biomedical Research Center, US
- **Chicco Adam J**, Colorado State University, US
- **Garcia-Roves Pablo Miguel**, University of Barcelona and Bellvitge Biomedical Research Institute, ES
- **Gross Atan**, Weizmann Institute, IL
- **Holloway Graham P**, University of Guelph, CA
- **Kopecky Jan**, Institute of Physiology of the Czech Academy of Sciences, CZ
- **Larsen Steen**, University of Copenhagen, DK
- **Pesta Dominik**, Institute of Aerospace Medicine, German Aerospace Center, DE
- **Roden Michael**, Heinrich Heine University and German Diabetes Center, Düsseldorf, DE
- **Shirihai Orian**, University of California, Los Angeles, US
- **Weigert Cora**, University of Tübingen, DE
- **Yardeni Tal**, Sheba Medical Center, Ramat Gan, IL

MiPsociety and General Assembly 2023

MiPsociety

- The *MiPsociety* is an international organization, based in Europe and operating world-wide and has become a legal body in 2011 continuing a tradition of rigorous mitochondrial bioenergetics; integrating molecular, cellular and organismic physiology and pathology.

Membership is open to all researchers

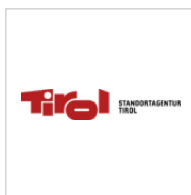
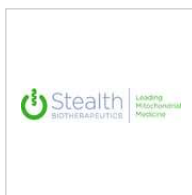
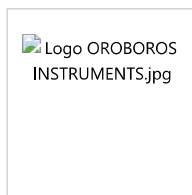
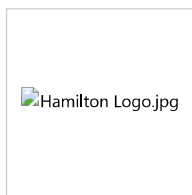
» *MiPmembership*

Candidates for the election of the Executive *MiPcommittee* are listed here: *MiPcommittee_2023* election candidates (https://www.mitophysiology.org/index.php/MiPcommittee_2023_election_candidates)

- The MiPs General Assembly will take place during the *MiPconference 2023*. All members are invited to join.

Support

Support for the *MiPconference 2023* is acknowledged (alphabetical order):



We invite cooperating scientific societies and institutions to cooperate and support the *MiPconference 2023*.

Listed under MitoGlobal Events.

Labels:



ORO, 2023, Next, MiP, MitoGlobal, O2k-Network Award

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