



At the **Teaching Unit of Excellence**  
Physiology Division  
Medical University of Graz  
Friday, 21<sup>st</sup> June 2019

## “Vascular Physiology, Physiological Techniques and Medical Education”

In cooperation with:

Austrian Physiological Society  
Croatian Physiological Society  
Slovenian Physiological Society  
Slovakian Physiological Society  
LBI for Vascular Lung Research

With additional invited international speakers from:

Association of Physiologists and Pharmacologists of India (APPI)  
Czech Physiological Society  
French Physiological Society  
Physiological Society of South Africa

Sponsored by:

AD Instruments  
CNSystems  
LBI for Vascular Lung Research  
Physiology Division, Medical University of Graz

**Invited Speakers (alphabetically listed)**

Assoc. Prof. Jan **Bakos**, Comenius University, Bratislava, *Slovakia*

Ms. Bianca **Brix** MSc, Medical University of Graz, *Austria*

Prof. Helena **Chowdhury**, University of Ljubljana, *Slovenia*

Prof. Kishore Kumar **Deepak**, All India Institute of Medical Science (AIIMS), New Delhi, *India*

Prof. Petr **Dobsak**, Masaryk University, Brno, *Czech Republic*

Prof. Ines **Drenjancevic**, University of Osijek, *Croatia*

Prof. Margarethe **Geiger**, Medical University of Vienna, *Austria*

Dr. Erik Konrad **Grasser**, University of Fribourg, *Switzerland*

MUDr. Silvia **Hnilicová**, Comenius University Bratislava, *Slovakia*

Prof. Naim Akhtar **Khan**, University of Dijon, *France*

Prof. Helena **Lenasi**, University of Ljubljana, *Slovenia*

Prof. Justin **Lawley**, University of Innsbruck, *Austria*

Prof. Tony **MacKnight**, ADInstruments, *New Zealand*

Assoc. Prof. Matej **Mertik**, Alma Mater Europea Maribor, *Slovenia*

Prof. Igor **Mekjavic**, Jožef Stefan Institute, Ljubljana, *Slovenia*

Dr. Bence **Nagy**, LBI for Lung Vascular Research, *Austria*

Prof. Rado **Pisot**, Science and Research Center Koper, *Slovenia*

Dr Carmen **Possnig**, European Space Agency Research doctor, Concordia, *Antarctica*

Prof. Markus **Ritter**, Paracelsus University, Salzburg, *Austria*

Ao Prof. Daniel **Schneditz**, Medical University of Graz, *Austria*

Prof. Omar **Sery**, Masaryk University, Brno, *Czech Republic*

Prof. Jarmila **Siegelova**, Masaryk University, Brno, *Czech Republic*

Prof. Sanjay **Sood**, University of Ajman, Ajman, *United Arab Emirates*

Prof. Hans **Strijdom**, University of Stellenbosch, Cape Town, *South Africa*

Prof. Ludvik **Toplak**, Alma Mater Europaea Maribor, *Slovenia*

Prof. Jakob **Völkl**, Johannes Kepler University, Linz, *Austria*

Dr. Maciej **Wielgosz**, Technical University, Krakow, *Poland*

## Program

### Thursday, June 20 2019

**19:00**                    **Meet and Greet**  
 Evening cocktail (beer, wine and cheese)  
*Glöckl Bräu, Glockenspielplatz 2-3, Graz*

### Friday, June 21 2019

**08:30**                    **Registration**  
 MedCampus Graz - Aula  
*Neue Stiftingtalstraße 6, 8010 Graz*

**09:00 – 10:30**        **SESSION 1**  
*Chairs: Margarethe Geiger (Vienna), Igor Mekjavic (Ljubljana), Jarmila Siegelova (Brno)*

09:00 – 09:15        **On the manifold functions of the non-gastric H<sup>+</sup>/K<sup>+</sup>-ATPase ATP12A**  
 Prof. Markus Ritter,  
*Paracelsus University, Salzburg, Austria*

09:15 – 09:30        **Current research and evidence from bedrest studies in older persons: PANGEA and other studies**  
 Prof. Rado Pisot  
*Science and Research Center Koper, Slovenia*

09:30 – 09:45        **Autism: in vitro models, neuronal morphology and/or neurite extension**  
 Assoc. Prof. Jan Bakos  
*Biomedical Research Center, Slovak Academy of Sciences and Faculty of Medicine, Comenius University, Bratislava, Slovakia*

09:45 – 10:00        **Potential protective effects of polyunsaturated fatty acids (n-3 PUFAs) dietary intake on vascular function**  
 Prof. Ines Drenjancevic  
*University of Osijek, Croatia*

10:00 – 10:15        **Transnational medical education in the EU**  
 Prof. Ludvik Toplak  
*Alma Mater Europaea Maribor, Slovenia*

10:15 – 10:30        **Physiology Education – the Future**  
 Prof. Tony MacKnight  
*ADInstruments, New Zealand*

**10:30 – 11:00 Round Table Discussion on Medical Education**

*Moderator: Assoc. Prof. Dr. Nandu Goswami*

*Panel:* Prof. Kishore Kumar Deepak (India)  
Prof. Ines Drenjancevic (Croatia)  
MUDr. Silvia Hnilicová (Slovakia)  
Prof. Naim Akhtar Khan (France)  
Prof. Markus Ritter (Austria)  
Prof. Ludvik Toplak (Slovenia)  
Prof. Jakob Völkl (Austria)

**11:00 – 11:15**  
**COFFEE BREAK & SNACKS**  
*Foyer*

**11:15 – 13:00 SESSION 2**

*Chairs: Rado Pisot (Koper), Ines Drenjancevic (Osijek), Hans Strijdom (Cape Town)*

11:15 – 11:30

**Vascular reactivity in hyperthyroidism**

Prof. Helena Lenasi  
*University of Ljubljana, Slovenia*

11:30 – 11:45

**Lymphedema: current updates and perspectives**

Ms Bianca Brix, MSc  
*Medical University of Graz, Austria*

11:45 – 12:00

**Mechansisms of medial vascular calcification**

Prof. Jakob Völkl  
*Johannes Kepler University, Linz, Austria*

12:00 – 12:15

**Treating prostate cancer patients with the cell hybridoma vaccine**

Prof. Helena Chowdhury  
*University of Ljubljana, Slovenia*

12:15 – 12:30

**The taste of fat**

Prof. Naim Akhtar Khan  
*University of Dijon, France*

12:30 – 12:45

**Review of recent work at the ESA high-altitude hypoxic facility at Planica**

Prof. Igor Mekjavic  
*Jožef Stefan Institute, Ljubljana, Slovenia*

12:45 – 13:00

**A year on White Mars: Researching at -80°C**

Dr. Carmen Possnig  
*European Space Agency Research MD for Concordia, Antarctica*

**13:00 – 14:00**  
**LUNCH BREAK & POSTER PRESENTATIONS (5min/poster)**  
*Foyer*

**14:00 – 16:00**

**SESSION 3**

*Chairs: Sanjay Sood (Ajman), Helena Chowdhury (Ljubljana), Jan Bakos (Bratislava)*

14:00 – 14:15

**Chronobiology research: Brno-Graz collaboration**

Prof. Jarmila Siegelova  
*Masaryk University, Brno, Czech Republic*

14:15 – 14:30

**Celebrating the life and works of Prof Thomas Kenner**

Prof. Daniel Schneditz  
*Medical University of Graz, Austria*

14:30 – 14:45

**Eccentric training in ambulatory rehabilitation program for patients with chronic heart failure**

Prof. Petr Dobsak  
*Masaryk University, Brno, Czech Republic*

14:45 – 15:00

**Autonomic function in health and disease**

Prof. Kishore Kumar Deepak  
*All India Institute of Medical Science (AIIMS), New Delhi, India*

15:00 – 15:15

**Vascular biology research: current perspectives**

Prof. Margarethe Geiger  
*Medical University of Vienna, Austria*

15:15 – 15:30

**Vascular imaging techniques and HIV: Perspectives from the EndoAfrica study in South Africa**

Prof. Hans Strijdom  
*University of Stellenbosch, Cape Town, South Africa*

15:30 – 15:45

**Cardiovascular dysregulation and the potential impact of ethnicity: Do sugars affect the susceptibility to blood pressure dysregulation in people from South Asia?**

Dr. Erik Konrad Grasser  
*University of Fribourg, Switzerland*

15:45 – 16:00

**Metabolisms in pulmonary hypertension**

Dr. Bence Nagy  
*LBI for Lung Vascular Research, Austria*

**16:00 – 16:15**  
**COFFEE BREAK & SNACKS**  
*Foyer*

**16:15 – 17:15**

**SESSION 4**

*Chairs: KK Deepak (New Delhi), Anna Hawliczek (Graz), Erik Grasser (Fribourg)*

16:15 – 16:30

**Neurocognition and eye-tracking: Approaches and perspectives**

Prof. Sanjay Sood

*University of Ajman, Ajman, United Arab Emirates*

16:30 – 16:45

**CD36 receptor and Alzheimer's disease**

Prof. Omar Sery

*Masaryk University, Brno, Czech Republic*

16:45 – 17:00

**Pathophysiology and countermeasures for Space flight-associated neuro-ocular syndrome.**

Prof. Justin Lawley,

*University of Innsbruck, Austria*

17:00 – 17:15

**Artificial intelligence in Medicine: Predicting orthostatic intolerance in older persons**

Dr. Maciej Wielgosz & Assoc. Prof. Matej Mertik

*AGH University of Science and Technology, Krakow, Poland & Alma Mater Europaea Maribor, Slovenia*

**17:15 – 17:30**

**POSTER PRIZE AWARDS**

**INDUCTION OF NEW MEMBERS**

***Participation FEES: 20€ (Students)***

***50€ (All others)***

## COMMITTEES

### Scientific Committee (Austrian Physiological Society)

Margarethe Geiger (President)  
Markus Ritter (Vice President)  
Nandu Goswami (Secretary),  
Rosa Lemmens-Gruber (Deputy Secretary)  
Marjan Rupnik (Treasurer),  
Judith Lechner (Deputy Treasurer)

### Local Organizing Committee (Graz)

Anita Ertl  
Bianca Brix  
Andreas Rössler  
Johann Wagner  
Karin Schmid-Zalaudek  
Andreas Jantscher  
Anna Hawliczek  
Jerry Joseph Batzel

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