

## 8<sup>TH</sup> Virtual Winter Symposium of the HUMAN MOTION PROJECT



**Human Motion in times of Corona: A booster for walking, the use of wearables in clinical trials and telemedicine in clinical practice?**

**10 March 2021**

**08:30-17:00 CET | Virtually through Zoom**

Link to access the Symposium will be provided to registered participants

Register until February 26th, 2021

Scan QR-Code or go to:

<https://goo.gl/forms/koSMGNtHe2GuBgRI2>



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## FINAL PROGRAM

**08:30 Registration & Virtual waiting room**

**09:00 Welcome**

**Martin Daumer**, SLC-The Human Motion Institute, Trium Analysis Online, Technical University of Munich (TUM), GER

**09:15 Keynote lecture: "In Praise of Walking"**

**Shane O'Mara**, Trinity College Dublin, Experimental Brain Research, IRL

**09:45 The influence of inactivity on health**

**Mathias Ried-Larsen**, Centre for Physical Activity Research, Rigshospitalet, DK

**10:00 What are good muscle endpoints for clinical studies?**

**Jörn Rittweger**, German Aerospace Center (DLR), Division of Muscle and Bone Metabolism, Cologne, GER

**10:15 Discussion, Coffee break**

**10:30 Sex-hormones and trainability**

**Ylva Hellsten**, University of Copenhagen, Integrative Physiology, Department of Nutrition, Exercise and Sport, DK

**10:45 Learning from healthy bears**

**Peter Godsk Jørgensen**, Copenhagen University Hospital, Rigshospitalet, DK

**11:00 Real world walking speed and mobile accelerometry with RCT3 platform — privacy by design**

**Marcin Mider**, Trium Analysis Online, GER

**11:15 Neurodegeneration and Disability in PPMS:**

**Multimodal monitoring between real-life walking and brain imaging**

**Jan-Patrick Stellmann**, Aix-Marseille Université, Centre de Résonance Magnétique Biologique et Médicale, FR

## FINAL PROGRAM

**11:30 Fit-for-purpose validation of novel, value-based, digital endpoints for clinical trials**

**Adam Cohen**, Centre for Human Drug Research (CHDR), NL

**11:45 Discussion, Lunch break**

**12:45 Mobile monitoring of pregnancies: Experience in Denmark**

**Olav Bjørn Petersen**, Rigshospitalet, Department of Obstetrics and Gynaecology, Copenhagen, DK

**13:00 Mobile monitoring of pregnancies: Experience in Germany**

**Uwe Hasbargen**, Ludwig-Maximilians-University of Munich (LMU), Perinatal Center, Department of Obstetrics and Gynecology, GER

**13:15 Use of the CHDR Trial@Home platform for studying recovery from pulmonary infections in children-relevance for viral infections**

**Vasileios Exadaktylos**, Centre for Human Drug Research (CHDR), NL

**13:30 Accelerometric gait Analysis devices in children — will they accept it?**

**Marcello Grassi**, SLC-The Human Motion Institute, GER  
**Isabella Wiedmann**, German Aerospace Center (DLR), Division of Muscle and Bone Metabolism, Cologne, GER

**13:45 Discussion, Coffee break**

**14:00 Artificial Intelligence in Healthcare and Medicine**

**Daniel Rückert**, Alexander von Humboldt-Professor for AI Chair for AI in Healthcare and Medicine, Faculty of Medicine and Informatics, Technical University Munich (TUM), GER

**14:15 Telehealth in Denmark: From monoliths to co-creation**

**Morten Kyng**, Århus University, Department of Computer Science, and Alexandra Institutet, DK

## FINAL PROGRAM

**14:30 Innovative teaching at TUM in times of Corona**  
**Klaus Diepold, Michael Zwick**, Technische Universität München (TUM), Department of Electrical and Computer Engineering, GER

**14:45 Validating the Intel RealSense T265 for Human Motion Tracking**  
**Peter Hausmann**, Technische Universität München (TUM), Department of Electrical and Computer Engineering, GER

**15:00 Orthopedic surgery in times of Covid**  
**Markus Walther**, Schön Klinik München Harlaching, Foot and Ankle Surgery, GER

**15:15 Discussion, Coffee break**

**15:30 Introduction to student presentations of the TUM lecture Clinical Applications of Computational Medicine (CACOM)**

**15:45 “flexeal” for face masks: stop your glasses from steaming up and increase protection in times of COVID-19**  
**Dennis Göllitz, Franziska Stöckeler, Helga Ritzl, Samira Balbach, Jakob Pfohl** (“flexeal” study group)

**16:00 Development of a DIY air purifier for reducing the risk of coronavirus transmission in a low and high budget version**  
**Leon Mayer, Claudia Hofmann** and “flexeal” study group

**16:15 Gait: a new fingerprint?**  
**Aydin Uzun, Oussama Skhiri**

**16:30 Towards an accurate diagnostic of cyclists’ endofibrosis**  
**Carolina Contreras, Feriel Fendri, Lina Ben Messaoud**

**16:45 Panel Discussion, Closing Remark**

The organizers reserve the right for rearrangements

## REGISTRATION

### REGISTRATION

**We believe in the importance of holding this Winter Symposium and we rely on your attendance to make it a success.**

**Given the economic impact that COVID-19 is having across the world we have decided not to charge any registration fees. Instead, we would appreciate any financial support to our nonprofit organization SLC-The Human Motion Institute in the form of a donation, in order to continue our work.**

If you have any questions, please contact us at [sambo@slcmsr.org](mailto:sambo@slcmsr.org)

Account holder: Sylvia Lawry Centre for MS Research e.V.  
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Keyword: Winter Symposium 2021

Confirmation  
Upon receipt of the donation, a receipt for tax purposes will be issued

For online registration scan QR-code or go to:  
<https://goo.gl/forms/koSMGNtHe2GuBgR12>



**Zoom Link to access the Symposium will be provided to registered participants**

### General Data Protection Regulation

The applicant agrees that SLCMSR electronically saves and processes personal data necessary for the registration process and upcoming symposia (§28 GDPR)

**REGISTRATION CLOSING DATE**  
**FRIDAY FEBRUARY 26, 2021**

## GENERAL INFORMATION

### SCIENTIFIC COMMITTEE:

**Martin Daumer**, SLC-Human Motion Institute, Trium Analysis GmbH, TU Munich

**Ylva Hellsten**, University of Copenhagen, Integrative Physiology, Dept. of Nutrition, Exercise and Sport

**Jörn Rittweger**, German Aerospace Center (DLR), Head of the Division of Muscle and Bone Metabolism

### ACADEMIC PARTNERS



### SUPPORTED BY



### PRESS



This Symposium is certified by the Bavarian Medical Association (BLÄK) with 8 continuing medical education points (CME-credits)

+++ Please note, that the event will be recorded and we will make the recording available to registered participants afterwards in order to receive CMEs +++

The conference is dedicated to the memory of the outstanding mathematician and mathematical physicist **Prof. Dr. Detlef Dürr** (\*4.3.1951 - † 3.1.2021)