

## 5<sup>TH</sup> WINTER SYMPOSIUM OF "THE HUMAN MOTION PROJECT"

Opportunities arising

### Novel Endpoints Generated by Mobile Accelerometry for Use in Phase III Clinical Trials

>> MARCH 07, 2018 <<

#### Venue

TranslaTUM – Central Institute for Translational Cancer  
Research of the TUM  
GF, Building 522  
Johannes B. Ortner Forum (room 22.0.1)  
Ismaninger Str. 22  
81675 Munich

Register till February 28th, 2018

Scan QR-Code or go to:

<https://goo.gl/forms/CQIQvBfVV9wQN3qz1>



#### In the context of IMI Call



"Linking digital assessment of mobility to clinical endpoints  
to support regulatory acceptance and clinical practice"

Stage 1 submission deadline: 28 February 2018 (17:00 Brussels time)

[www.ec.europa.eu](http://www.ec.europa.eu)



## PRELIMINARY PROGRAM

### 08:30 Registration & Coffee

#### 09:00 Mobile accelerometry in clinical trials: towards regulatory decision making

Martin Daumer, SLC-The Human Motion Institute, Trium  
Analysis Online, TU Munich, GER

#### 09:15 Defining standards in accelerometry implementation and endpoints for clinical trials

Bill Byrom, Senior of Product Innovation, Vice Director of  
ePRO CONSORTIUM, ICON plc, UK

#### 09:30 Beyond daily steps and energy expenditure: the next "step" in physical activity parameters

Bernd Grimm, Fellow of International Orthopaedic  
Research, Past-President EORS, GER

### 09:45 Discussion

### 10:00 Coffee break & Poster

#### 10:15 Application of activity monitoring for objective functional assessment in patients with orthopaedic problems

Dieter Rosenbaum, Director Biomechanics Research, Clinical  
Research and Services, Otto Bock Healthcare GmbH, GER

#### 10:30 Treatment of Fatigue in MS (TREFAMS-ACE study): results and detailed analyses of objectively measured physical behavior

Johannes (Hans) B.J. Bussmann, Associate Professor Dept.  
of Rehabilitation Medicine, Erasmus MC University Medical  
Center Rotterdam

Vice & Past President of the International Society for the  
Measurement of Physical Behaviour (ISMTB), NL

#### 10:45 Continuous monitoring of patient mobility for 18 months using inertia sensors following serious knee injury: a case study

Holger Höfling, Novartis Institutes for BioMedical Research,  
Basel, CH

### 11:00 Discussion

#### 11:15 The impact of the EU General Data Protection Regulation (GDPR) on medical devices

Anna E. Schmaus-Klughammer, Member of the Scientific  
Staff, Technische Hochschule Deggendorf (THD), GER

### 11:30 Lunch, Poster, Exhibition & Networking

#### 13:00 Moving preclinics

Oliver Hayden, Heinz Nixdorf Chair of Biomedical  
Electronics, Department of Electrical and  
Computer Engineering, TU Munich, GER

## PRELIMINARY PROGRAM

#### 13:15 Innovation by looking into extreme ends: learning from astronaut training and pediatric rehabilitation for clinical trial methodology

Jörn Rittweger, Head of the Division of Muscle and  
Bone Metabolism, German Aerospace Center, GER

#### 13:30 Longitudinal data in ppMS patients including mobile accelerometry: insights from the OPRIMS study

Jan-Patrick Stellmann, Clinical Scientist, Institute of  
Neuroimmunology and Multiple Sclerosis (INMIMS),  
University Medical Center Hamburg-Eppendorf (UKE), GER

### 13:45 Discussion

#### 14:00 In-vivo hip contact forces and what insoles can predict: consequences for clinical trials

Georg N. Duda, Director of the Julius Wolff Institute,  
Professor for Biomechanics and Musculoskeletal  
Regeneration, Charité Berlin, GER

#### 14:15 Homeostasis disruption in carcinogenesis enclose inter-disciplinary link to research & Human Motion Project

Björn Brücher, Professor of Surgery, Director, Center of  
Gastrointestinal Oncology of the Cancer Center Cottbus, GER  
INCORE & Theodor-Billroth-Academy Germany-USA

#### 14:30 Event based analysis of real world walking in clinical populations

Malcom H. Granat, Professor in Health and Rehabilitation  
Sciences/School of Health Sciences, University of Salford  
President of the International Society for the Measurement  
of Physical Behaviour (ISMTB), NL

### 14:45 Discussion

### 15:00 Coffee break

#### 15:15 The effect of immobilisation and training on vascular function and growth: an example of a human integrative physiology study

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

#### 15:30 Which endpoints should we measure in clinical trials? And how should we measure them?

Tom MacDonald, Director of MEMO Research, Professor &  
Consultant Physician, University of Dundee, Scotland

#### 15:45 Design case study in wearable technology

Kuno Prey / Seçil Uğur Yavuz, Faculty of Design and Art,  
Free University of Bozen, IT

### 16:00 Summary, Funding opportunities

## POSTERS

### » Activity tracking with smart devices: precision in real world measurements and the quest for the gold standard

Ferdinand Heinrich<sup>1</sup>, Thomas Höller<sup>1</sup>, Christoph Horlebein<sup>1</sup>, Carla Pregel Hoderlein<sup>1</sup>

<sup>1</sup>Department of Electrical and Computer Engineering, TU Munich

### » Study on classification of fetal risk from cardiocography data using machine learning techniques

Ülkü Karaduman<sup>1</sup>, Burakhan Koyuncu<sup>1</sup>, Emre Mericboyu<sup>1</sup>, Christian Widderich<sup>1</sup>

<sup>1</sup>Department of Electrical and Computer Engineering, TU Munich

### » Functional enhancement of activity monitoring by building custom data visualization

Muneer Ahmad<sup>1</sup>, Liubov Semenova<sup>1</sup>

<sup>1</sup>Department of Electrical and Computer Engineering, TU Munich

### » Recovery of habitual gait speed after 60 days of bed rest in young healthy male subjects

Marcello Grassi<sup>1,2</sup>, Martin Daumer<sup>1,2</sup>, Jörn Rittweger<sup>3</sup>

<sup>1</sup>SLC-The Human Motion Institute

<sup>2</sup>Trium Analysis Online

<sup>3</sup>German Aerospace Center

The organizers reserve the right for rearrangements

#### Interested to present a poster, give a talk or exhibit?

##### Please contact:

Dr. Martin Daumer  
SLCMSR e.V. -  
The Human Motion Institute  
E-Mail: daumer@slcmsr.org  
Website: thehumanmotioninstitute.org

Hohenlindener Str. 1  
81677 Munich, Germany  
Tel: +49 89 2060269-20  
Fax: +49 89 2060269-51

## REGISTRATION

### Registration fee

Industry	400€
Public Research Institution	250€
PhD students	100€
Students	50€
Students presenting poster	free
Interested patients	free
Press	free
Speakers	free



Scan QR-Code or go to:

<https://goo.gl/forms/CQIQvBfVV9wQN3qz1>

Last minute registration: plus 20%

All fees include 19% VAT

Fee includes drinks & lunch

### Payment of Fees

All fees for registration should be paid in Euro (€) in advance to Sylvia Lawry Centre e.V. – The Human Motion Institute, stating the participant's name and address. Bank charges are the responsibility of the payer and should be paid in addition to the registration fees. Payment can be effected by bank transfer to:

Account holder/beneficiary:

Sylvia Lawry Centre for Multiple Sclerosis Research e.V.

Financial institution:

HypoVereinsbank Munich

Innere Wiener Str. 60 - 81667 München

SWIFT/BIC HYVEDEMMXXX

IBAN-Code DE70 7002 0270 00 36 198 214

### Confirmation

Upon receipt of the correct registration fee, each participant will receive a confirmation of registration. Please bring this confirmation to the registration desk as proof of your registration.

### Cancellation Policy

Refund of registration fees will be as follows:

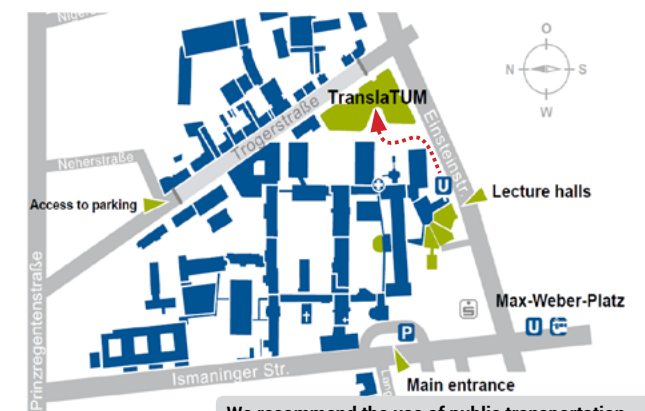
- until end of February 2018: 50% refund

- No refund on cancellations after March 4th, 2018

**REGISTRATION CLOSING DATE**  
**WEDNESDAY FEBRUARY 28TH, 2018**

## GENERAL INFORMATION

### Site Map



We recommend the use of public transportation.  
Nearby parking garage (fee required)  
"Parkhaus Hofbräu Keller"  
Innere Wiener Straße 19  
81667 München

### Academic Partners



### Press & Dissemination



### Organizing Committee

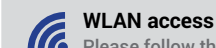
**Martin Daumer**, SLC-The Human Motion Institute, Trium, TU Munich

**Bill Byrom**, Senior Director of Product Innovation,

Vice Director of ePRO Consortium, ICON plc

**Bernd Grimm**, Fellow of International Orthopaedic Research, Past-President EORS

**Oliver Hayden**, Heinz-Nixdorf-Chair of Biomedical Electronics  
Department of Electrical and Computer Engineering TranslaTUM,  
Campus Klinikum rechts der Isar, TU Munich



### WLAN access

Please follow the instruction of the LRZ

[https://www.lrz.de/services/netz/wlan\\_en/bayernwlan\\_en/](https://www.lrz.de/services/netz/wlan_en/bayernwlan_en/)