

5TH 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 March 5th, 2018

Scan QR-Code or go to:

<https://goo.gl/forms/CQlQvBfVV9wQN3qz1>



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



FINAL 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, VP Product Strategy and Innovation, CRF Health, 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 Stepwave - a new algorithm for step detection and speed estimation**
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

FINAL 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 load measurements with instrumented implants**
Philipp Damm, Julius Wolff Institute for Biomechanics and Musculoskeletal Regeneration, Charité Universitätsmedizin 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, 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 Heinrich¹, Thomas Höller¹, Christoph Horlebein¹,
Carla Pregel Hoderlein¹

¹Department of Electrical and Computer Engineering, TU Munich

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

Ülkü Karaduman¹, Burakhan Koyuncu¹, Emre Mericboyu¹, Christian Widderich¹

¹Department of Electrical and Computer Engineering, TU Munich

» Functional enhancement of activity monitoring by building custom data visualization

Muneer Ahmad¹, Liubov Semenova¹

¹Department 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^{1,2}, Martin Daumer^{1,2}, Jörn Rittweger³

¹SLC-The Human Motion Institute, ²Trium Analysis Online,

³German Aerospace Center

» Towards large-scale learning for intensity classification of daily activities: A step towards standardization of accelerometry

V. Farahi¹, M. Niemelä¹, P. Turin¹, M. Kangas^{1,2},
R. Korpelainen^{2,3}, T. Jämsä^{1,2}

¹Research Unit of Medical Imaging, Physics and Technology (MIPT), University of Oulu, Oulu, Finland; ²Medical Research Center, Oulu University Hospital and University of Oulu, Finland; ³Center for Life Course Health Research, University of Oulu, Oulu, Finland

» Pervasive physical activity monitoring from wearable devices

Joana Silva¹

¹Fraunhofer Portugal Research Center for Assistive Information and Communication Solutions

» Precision and patient acceptance of a belt-worn wearable (actibelt) in patients with osteoporosis and/or after trauma surgery

M. Daumer^{1,2}, J. Fürmetz³, A. Keppler³, H. Höfling⁴, A. Müller⁴,
S. Hariry⁴, M. Schieker⁴, M. Grassi^{1,2}, B. Greese², T. Nuritdinow¹,
G. Aigner², C. Lederer¹, W. Böcker³

¹SLCMSR e.V. - The Human Motion Institute - Munich; ²Trium Analysis Online GmbH - Munich; ³LMU Department of General, Trauma and Reconstructive Surgery; ⁴Novartis Institutes for Biomedical Research - Basel

» Pervasive physical activity monitoring from wearable devices

Joana Silva¹, Inês Sousa¹

¹Fraunhofer Portugal Research Center for Assistive Information and Communication Solutions

The organizers reserve the right for rearrangements

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

Please contact:

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SLCMSR e.V. -
The Human Motion Institute
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Website: thehumanmotioninstitute.org

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

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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

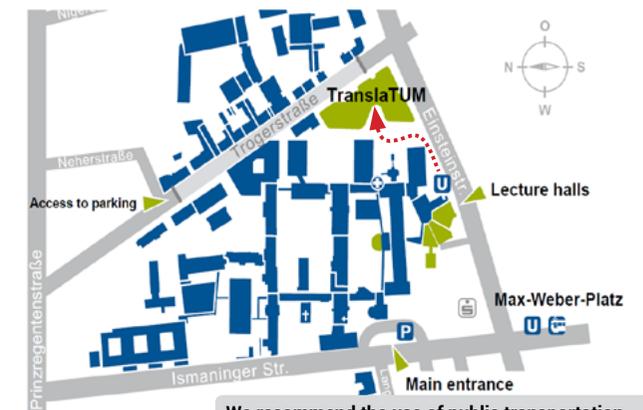
Refund of registration fees will be as follows:

- No refund on cancellations after March 5th, 2018

REGISTRATION CLOSING DATE
MONDAY MARCH 5TH, 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, VP Product Strategy and Innovation, CRF Health, UK

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



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