

12TH WINTER SYMPOSIUM of the Human Motion Project



A Philosophical Garden of Digital Biomarkers Birth, Wearables and Motion

11 March 2025
08:30 - 16:00 CET | HYBRID

Venue:

TranslaTUM - Central Institute for Translational
Cancer Research
Einsteinstraße 25 (Building 522)
81675 Munich
Germany

Register until February 28th, 2025

Please visit our website:

<https://humanmotioninstitute.de>

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PRELIMINARY PROGRAMME

The organizers reserve the right for rearrangements

08:30 Registration & Coffee

08:45 Welcome to the philosophical garden of digital biomarkers

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

09:00 Current state of intrapartum CTG monitoring in the UK & beyond

Austin Ugwumadu, Consultant/Senior Lecturer in Obstetrics and Gynaecology at St George's Hospital, and St George's, University of London, UK

09:15 CTG telemonitoring in France

Simon Crequit, André Grégoire Hospital, Department Gynécologue obstétricien, FR

09:30 The "Ulm experience" with physiological CTG

Sophia Andres, University of Ulm, Department of Obstetrics and Gynecology, GER

9:45 Benefit vs. Risks of electronic fetal monitoring: thoughts from a clinician's perspective

Teresa Starrach, Uwe Hasbargen, Sven Kehl, LMU University Hospital, Perinatal Center Großhadern, Department of Obstetrics and Gynecology, GER

10:00 Experience with telemedicine from an insurer's perspective - stroke and obstetrics

Anna Schmid, Versicherungskammer Bayern, GER

10:15 Panel Discussion

10:30 Coffee break and Time buffer

11:00 (How) does an "exercise pill" work?

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

11:15 Vertical and horizontal running on the Moon

Gaspard Pavel, Department of Pathophysiology and Transplantation University of Milan, IT

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11:30 Wearable Robotics and Machine Learning for human assistance and augmentation

Lorenzo Masia, Munich Institute for Robotics and Machine Intelligence (MIRMI), School of Computation Information and Technology, Department of Computer Engineering, Technical University of Munich (TUM), GER

11:45 Synthetic biology-powered sensors for next-generation healthcare: Wearables, Microfluidic devices and CRISPR/Cas technology

Can Dincer, Sensors and Wearables for Healthcare, TUM School of Computation, Information and Technology, GER

12:00 Update regulatory acceptance of real-world walking as outcome in Duchenne, MS and beyond

Margeux Poleur, MD, PhD student Service de Neurologie CHR Citadelle Liège, BE

Laurent Servais, University of Oxford, MDUK Oxford, Neuromuscular Center, Department of Paediatrics, UK

12:15 The path to regulatory acceptance from a company's perspective

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12:30 Discussion, Lunch break, Time buffer

14:00 Panel Discussion - Do we need a novel format to collaborate? - "Towards an open collaborative platform for digital biomarkers"

- Access to algorithm and raw data
- Disease agnostic - Device agnostic
- "BIG CTG DATA" - imaging & AI
- Funding - European Health Data Space & AI act
- Initial focus on human motion monitoring:
- Real world walking speed?
- Duchenne and Multiple sclerosis?
- Hip / ankle?
- 6-minute walk test (6MWT) as intermediate step?

STUDENT PRESENTATION

14:30 Student Presentations (of the [TUM lecture “Clinical Applications of Computational Medicine” \(CACOM\)](#))

Ca. 16:00 Panel Discussion, Closing Remark

REGISTRATION

REGISTRATION FEE

The symposium fee* (VAT included) is as follow:

Industry	400€
Academic / Research	250€
PhD student	100€
Student	50€
TUM CACOM student	free
Interested patient and press	free
Speaker	free

*Symposium fee includes drinks & lunch

Pay through Stripe or PayPal. Please go to our website:
<https://humanmotioninstitute.de/register>

SLCMSR e.V. - The Human Motion Institute is a non-profit association under § 52 Abs. 2 of German Law and a tax-exempt non-profit association under § 5 Abs. 1 (corporate income tax regulation)

If you require assistance regarding your payment, please contact our support team at info@humanmotioninstitute.de

Please register on our website:

<https://humanmotioninstitute.de/register>



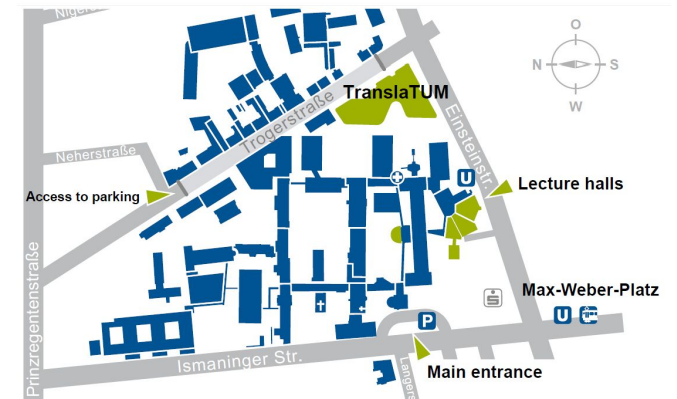
General Data Protection Regulation

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 28, 2025

GENERAL INFORMATION

Map



SCIENTIFIC COMMITTEE:

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

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

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



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PRESS



We will request the Certification of Medical Education points (CME-credits) from the Bavarian Medical Association (BLÄK)

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