WCMM-LiU symposium Linköping 6 - 7 December 2018
Lecture hall Hugo Theorell, Northern entrance, level 9, Campus US

(Abstracts will be available at https://people.ifm.liu.se/stekl/posterwcmm2018.pdf)

We invite you to partake in the third annual WCMM-LiU symposium, an initiative focusing on the Medicine-Technology Interface.

- Invited keynote speakers
- WCMM group leaders
- Poster sessions presenting the Medicine – Technology Interface at WCMM-LiU

Preliminary program

**Thursday 6 December 2018**
13:00 – 13:15 Presentation WCMM
13:15 – 15:15 Structural Electrophysiology
15:15 – 16:15 Poster session with Coffee (all areas are presented)
16:15 – 18:15 Neurobiology with Brain Disorders
19:00 – Dinner

**Friday 7 December 2018**
08:30 – 09:30 Poster session with Coffee (all areas are presented)
09:30 – 11:30 Molecular Cell Signalling
11:30 – 12:30 Poster session with Wraps (all areas are presented)
12:30 – 14:30 Imaging: from DNA to Tissue
14:30 – 14:45 Closing remarks

WCMM

Linköping University, the University Hospital and the County Municipality of the region Östergötland, has received a generous donation from the Knut and Alice Wallenberg to launch one of the four Wallenberg Centre for Molecular Medicine (WCMM) nodes in Sweden. Our node focuses on the medicine-technology interface and build upon our existing strengths in research within medical technology, materials science and bioengineering.

Organized by [Wallenberg Center for Molecular Medicine at Linköping University](https://www.liu.se/en) together with the research school and network [Forum Scientium](https://www.liu.se/en)

WCMM = [Wallenberg Center for Molecular Medicine at Linköping University](https://www.liu.se/en)
For questions on the arrangement contact Stefan Klintström at stefan.welin.klintstrom@liu.se
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Thursday afternoon 6 December

Presentation WCMM
13:00-13:15  WCMM Linköping
Mikael Sigvardsson

First session - Structural Electrophysiology
Chairperson Fredrik Elinder
Division of Neurobiology, Faculty of Medical and Health Sciences, LiU
13:15 – 13:50
“Capturing the dynamic structure of conducting ion channels with a new optical approach”
Antonios Pantazis, WCMM Fellow, Division of Neurobiology, Faculty of Medical and Health Sciences, LiU
13:50 – 14:25
“Structural dynamics of voltage-gated ion channels and implications for health and disease”
Lucie Delemotte, SciLifeLab and KTH, Stockholm, Sweden
14:25 – 15:00
“Conformational flexibility of AMPA-type glutamate receptors - a functional perspective”
Jelena Baranovic, Edinburgh University, Scotland
15:00 – 15:15
“Rational design of compounds targeting the cardiac IKs channel”
Sara Liin
Neurobiology, Linköping University
15:15– 16:15
Poster session with Coffee
(all areas presented)

Second session - Neurobiology and Brain Disorders
Chairperson Stefan Koch
Division of Radiological Sciences, Faculty of Medical and Health Sciences, LiU
16:15 – 16:50
“A Swiss army knife to dissect disease”
Walker Jackson, WCMM Fellow, Division of Neurobiology, Faculty of Medical and Health Sciences, LiU
16:50 – 17:25
“Prion behaviour of a low complexity domain in mammalian cells”
Ina Vorberg, German Center for Neurodegenerative Diseases (DZNE), Bonn, Germany
17:25 – 18:00
“Protein misfolding and fibril polymorphism in amyloid diseases”
Per Hammarström, Division of Chemistry, Faculty of Science and Engineering, LiU
18:00 – 18:15
“The effect of reduced retromer function on the clearance and transfer of intra- and extracellular beta-amyloid and alpha-synuclein in neurons.”
Nazira J. Albargothy
Division of Neurobiology, Linköping University

Dinner
19:00 -
at “Livgrenadjärmässen”
Brigadgatan 8, Linköping
Ten minutes’ walk from US Södra entrén

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Maps will be available at the symposium.

Friday 7 December
08:30 – 09:30
Poster session with coffee
(all areas presented)

Third session – Molecular Cell Signalling
Chairperson Francisca Lottersberger
WCMM Fellow, Division of Microbiology, Infection and Inflammation, Faculty of Medicine & Health Sciences, LiU
09:30 – 10:05
“Wnt Signalling at the Interface Between Development and Cancer”
Claudio Cantú, WCMM Fellow, Division of Microbiology, Infection and Inflammation, Faculty of Medicine & Health Sciences, LiU
10:05 – 10:40
“The epitranscriptome: a new layer of gene expression regulation”
Francesca Aguilo, WCMM Fellow, Medical Biosciences, Umeå University, Sweden
10:40 – 11:15
“Correcting genetic liver diseases with CRISPR/Cas9-base editors”
Gerald Schwank, Molecular Health Sciences, ETH, Zürich, Switzerland
11:15 – 11:30
“Multi-level mechanistic mathematical models that brings cell signalling research to end-use in pharma and the clinic.”
Tilda Herrgårdh
Biomedical Engineering and Clinical, and Experimental Medicine, Linköping University
11:30 – 12:30
Poster session with wraps
(all areas presented)

Fourth session – Imaging: from DNA to Tissue
Chairperson Frank Hernandez
WCMM Fellow, Division of Drug Research, Faculty of Medicine & Health Sciences, LiU
12:30 – 13:05
“Emerging Optical Techniques for Wide-Field, Quantitative Imaging of Tissue”
Rolf Saager, WCMM Fellow, Division of Biomedical Engineering, Faculty of Science and Engineering, LiU
13:05 – 13:40
“Illuminating Genome Organization through integrated Microscopy and Sequencing”
Magda Bienko, Division of Translational Medicine and Chemical Biology, SciLifeLab, Karolinska Institutet, Stockholm, Sweden
13:40 – 14:15
“Structural analysis of mammalian telomere replication”
Ylli Doksani, Institute of Oncology (IFOM), Milan, Italy
14:15 – 14:30
“Understanding Viral Entry Mechanisms through Multi-Level Structural Analysis”
Eleonore von Castelmur, WCMM Fellow, Structural Biology, Linköping University
14:30 – 14:45
Closing remarks
Mikael Sigvardsson

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