

# 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 focus 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](#) together with the research school and network [Forum Scientium](#)



WCMM = [Wallenberg Center for Molecular Medicine at Linköping University](#)

For questions on the arrangement contact Stefan Klintström at [stefan.welin.klintstrom@liu.se](mailto: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-usage 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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