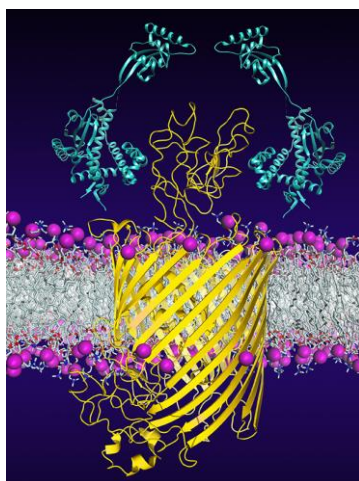


## 3<sup>rd</sup> Technology Apéro of the NCCR Molecular Systems Engineering

# Molecular Machines: Chemistry Meets Biology

Thursday, 10 November 2016, 14.00-18.30h  
Grosser Hörsaal, Chemistry Department, University of Basel

St. Johannisring 19, 4056 Basel



Chaperones (light blue) promote the insertion and folding of the bacterial membrane Proteine Fhu A (yellow)  
(Johannes Thoma und Prof. Daniel Müller/University of Basel)

## NCCR Molecular Systems Engineering: the focus

The National Competence Center in Research in Molecular Systems Engineering (Website: <http://nccr-mse.ch/>) is a new initiative of Swiss National Foundation (SNF) towards assembling synthetic molecular systems. It started in July 2014 and will last till 2026. The goal of this NCCR is to open new perspectives in the synthesis of chemical, biological and pharmaceutical compounds, in energy conversion, and in the development of medical diagnostics and therapeutics that are needed to address existing and future global challenges.

NCCR is eager to partner with industry and to enter direct industrial collaborations, as well as CTI-projects.

Twenty-six research groups from University of Basel (leading house), ETH Zurich (co-leading house), EPFL, University of Zurich, University of Berne, University of Geneva, Paul Scherrer Institute (PSI), Friederich-Miescher Institute/Novartis and IBM Research Zurich form a powerful means for this approach.

The 3<sup>rd</sup> Technology Apéro invites the research management and scientific staff of the pharmaceutical, chemical, biotechnological and general technology-oriented industry to get informed about the NCCR-MSE projects and to meet its protagonists.



## Program:

### Thursday, 10 November 2016

14:00 – 14:10 **Welcome**

Prof. Daniel Müller (ETH BSSE Basel) co-Director NCCR-MSE

14:10 – 15:30 **Key Note Lectures**

Dr. Emanuel Lörtscher  
Research Staff Member, IBM Research – Zurich  
“The Future of Nanoelectronics”

Dr. Birgit Nelsen-Salz  
R&T Alliances & Grants, Future Technologies LPB  
Lonza Cologne GmbH - Köln  
“Think small – Micro-biomanufacturing and beyond”

15:30 – 16:00 **Coffee Break and Poster Session**

16:00 – 16:30 **Short Presentation by our newly appointed professors**  
(10 min each)

Prof. Konrad Tiefenbacher (Univ. Basel)  
Prof. Michael Nash (Univ. Basel)  
Prof. Randall Platt (ETH BSSE Basel)

16:30 – 17:30 **Project Highlights from NCCR Molecular Systems Engineering**

Chair:

Prof. Daniel Müller (ETH BSSE Basel) co-Director NCCR-MSE

Prof. Wolfgang Meier (University of Basel)  
“Biodegradable Amphiphilic Block Copolymers: Controlled  
Encapsulation and Release of Drugs”

Prof. Janos Vörös (ETH Zurich)  
“Molography: a new sensing concept based on controlling molecular  
interactions at the sub-micron scale”

Prof. Karl Gademann (University of Zurich)  
“Engineering Cellular Systems by Molecular Design”

Prof. Kobi Benenson (ETH BSSE Basel)  
„Synthetic biology for drug discovery”

17:30 – 18:30 **Poster Session and Apéro**

This event has been kindly supported by NCCR Molecular Systems Engineering, BASF Schweiz AG, Lonza AG and IBM Research Zurich.

[www.nccr-mse.ch](http://www.nccr-mse.ch)





## Registration Form (no fees)

3<sup>rd</sup> Technology Apéro NCCR-MSE  
Thursday, 10 November 2016, 14.00-18.00h  
Grosser Hörsaal, Chemistry Department, University of Basel

Title	
Name	
Company/Institution	
Position	
Address	
Postal Code / City	
Email	
Phone	

**Please return the form at the latest by November 1<sup>st</sup>, 2016 to**

Dr. Niklaus Bühler, Senior Consultant Industrial Relations, NCCR-MSE

Email: [niklaus.buehler@sl.ethz.ch](mailto:niklaus.buehler@sl.ethz.ch)

Phone: +41 79 304 00 42





By train:

You will arrive in Basel at the railway station Basel SBB (trains arriving from Switzerland and France).

Leave the station through the main exit towards the city and take bus No. **30** to the stop **Kinderspital**. Cross the Street. Walk up **Spitalstrasse** and turn left into **St. Johannsring**.



**We are looking forward to meeting you on 10 November 2016!**

