

MBExC Retreat

14th February - 16th February 2024

Wednesday, 14th February

- 08:00 am Departure in Göttingen, MPI-NAT City Campus
 08:40 am Arrival at the Landhotel am Rothenberg, Volpriehausen
 09:15 am Welcome by Tobias Moser

Line of Research 1: Gene Expression and Regulation, Part I (achievements)

- 09:45 am **Overview of LoR 1** (*Hauke Hillen, Ricarda Richter-Dennerlein, André Fischer and Rubén Fernández-Busnadiego*)
 10:05 am *Research Alliance 1.1, Luis D. Cruz-Zaragoza (UMG)*
"Efficient silencing of mitochondrial gene expression in mammalian cells"
 10:25 am *Research Alliance 1.2, NN*
"tba"
 10:45 am *Research Alliance 1.3, Christian Griesinger (MPI-NAT)*
"Structures and modification of aggregates relevant for brain and heart"
 11:05 am Coffee break

Line of Research 1: Gene Expression and Regulation, Part II (future directions)

- 11:30 am *Research Alliance 1.1, Hauke Hillen and Ricarda Richter-Dennerlein (UMG)*
"tba"
 11:50 am *Research Alliance 1.2, André Fischer (DZNE and UMG)*
"tba"
 12:10 pm *Research Alliance 1.3, Rubén Fernández-Busnadiego (UMG)*
"tba"
 12:30 pm Lunch at the restaurant & Check-In

Line of Research 3: Nanodomains for Excitability, Part I (achievements)

- 02:00 pm **Overview of LoR 3** (*Stephan Lehnart, Tobias Moser and Silvio Rizzoli*)
 02:20 pm *Research Alliance 3.1, Tina Pangrsic and Eri Sakata (UMG)*
"Regulation of Cav1.3 properties and consequences of its malfunction for hearing, from protein to systems level"
 02:40 pm *Research Alliance 3.2, Julia Preobraschenski and Constantin Cretu (UMG)*
"From structure to function: Deciphering the role of ferlins in membrane docking and fusion"
 03:00 pm *Research Alliance 3.3, Wolfram-Hubertus Zimmermann (UMG)*
"tba"
 03:20 pm Coffee break

Line of Research 3: Nanodomains for Excitability, Part II (future directions)

- 04:00 pm *Research Alliance 3.1, Stephan Lehnart (UMG)*
"tba"
 04:20 pm *Research Alliance 3.2, Tobias Moser (UMG)*
"tba"
 04:40 pm *Research Alliance 3.3, Silvio Rizzoli (UMG)*
"tba"
 06:00 pm Dinner

Keynote Talk

- 08:00 pm *Steven O. Marx (Columbia University, Dept. of Medicine, Division Cardiology, USA)*
"tba"

- 09:00 pm **Welcome Reception**

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Thursday, 15th February

Line of Research 2: Multiscale Approaches to Heart and Brain, Part I (achievements)

09:00 am Overview of LoR 2 (Sarah Köster and Jan Huisken)

09:20 am *LoR 2 Research Highlight (NN)*
"tba"

09:40 am *LoR 2 Research Highlight (NN)*
"tba"

10:00 am Coffee break & **Poster Session**

Line of Research 2: Multiscale Approaches to Heart and Brain, Part II (future directions)

10:30 am Sarah Köster and Jan Huisken (UGOE)
"tba"

Seed fund talks / clinician scientist talks

11:00 am Julius Ryan Pronto (UMG)
"Mitochondrial ion channels as novel target for antiarrhythmic therapy in patients with atrial fibrillation"

11:20 am Óscar Gutiérrez-Gutiérrez (UMG)
"Testing of personalized CRISPR therapies for titin-truncating variants"

11:40 am Lennart Roos (UMG)
"Insights into cochlear structure by innovative light sheet fluorescence microscopy"

12:00 pm Lunch

Discussion - Round Table, Haus Kranich

1. Bridging time and length scales of functional organization
2. Comparative analysis of cardiac and neural networks
3. Collaboration between natural sciences and biomedicine
4. Combination of experimental with computational and theoretical approaches

02:00 pm 1st Round table session

03:00 pm Coffee break

03:30 pm 2nd Round table session

05:00 pm **Poster Session**

06:30 pm Dinner

Discussion - Round Table, Haus Kranich

08:00 pm Round table summary

09:00 pm **Poster Session and Get together**

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Friday, 16th February

Discussion - Round Table (future direction debate), Haus Kranich

- 09:00 am**
- 1. Line of Research 1: Gene Expression and Regulation**
(Hauke Hillen, Ricarda Richter-Dennerlein, André Fischer and Rubén Fernández-Busnadiego)
 - 2. Line of Research 2: Multiscale Approaches to Heart and Brain**
(Sarah Köster and Jan Huisken)
 - 3. Line of Research 3: Nanodomains for Excitability**
(Stephan Lehnart, Tobias Moser and Silvio Rizzoli)

10:00 am Coffee break

Discussion - Round Table, Haus Kranich

- 10:30 am** Summary roundtable LoR (future directions)
- 11:30 am** Member Assembly
- 12:00 pm** Lunch
- 01:00 pm** Departure
- 02:00 pm** Arrival in Göttingen, MPI-NAT City Campus (Hermann-Rein-Str. 3)