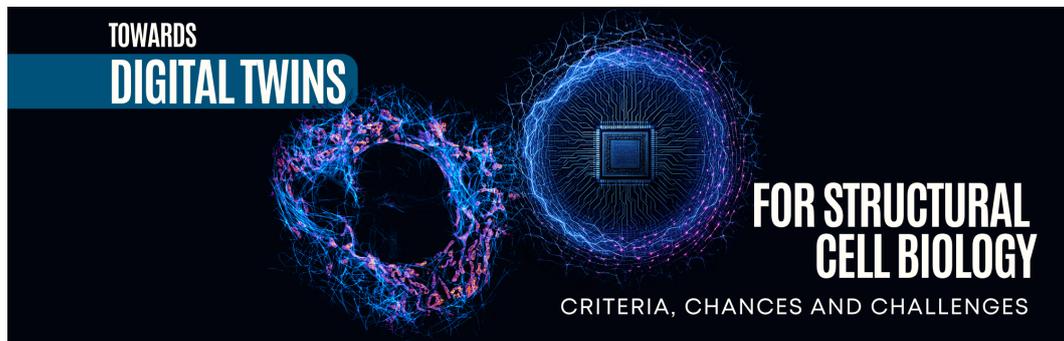


## Session Program

2-5 Mar 2026



## Giersch International Conference & SCALE Kick-Off

### *Short Talk*

FIAS / OSZ, Lecture Hall  
Campus Riedberg Ruth-Moufang-Str. 1 60438 Frankfurt am Main

# Tuesday 3 March

11:00

## Short Talk

**Session** | **Location:** FIAS / OSZ, Lecture Hall , Campus Riedberg Ruth-Moufang-Str. 1 60438 Frankfurt am Main

**11:00-11:20** **From in situ cryoET to digital twins of subcellular segments**

**Speaker**

Dr Sergio Cruz-Leon

**11:20-11:40**

**Control of the condensation of TDP-43 by enzymatic phosphorylation: a perspective from molecular dynamics simulations**

**Speaker**

Prof. Lukas Stelzl

11:45

16:00

## Short Talk

**Session** | **Location:** FIAS / OSZ, Lecture Hall , Campus Riedberg Ruth-Moufang-Str. 1 60438 Frankfurt am Main

**16:00-16:20** **Multiscale Modeling of Nuclear Membrane Sealing**

**Speaker**

Dr Karen Palacio-Rodriguez

**16:20-16:40**

**Deep-SegCLEM: unified segmentation and matching for correlative light-electron microscopy**

**Speaker**

Dr Soumaya Zaghbani

16:45

## Wednesday 4 March

09:45

### Short Talk

**Session** | **Location:** FIAS / OSZ, Lecture Hall , Campus Riedberg Ruth-Moufang-Str. 1 60438 Frankfurt am Main

09:45-10:05

#### **rRNA expansion segments mediate the oligomerization of inactive animal ribosomes**

**Speaker**

Ms Mara Müller

10:05-10:25

#### **Area-specific signatures of time-irreversibility in spontaneous neural activity of the mouse brain**

**Speaker**

Mr Jonas Elpelt

10:30

11:45

### Short Talk

**Session** | **Location:** FIAS / OSZ, Lecture Hall , Campus Riedberg Ruth-Moufang-Str. 1 60438 Frankfurt am Main

11:45-12:05

#### **In situ structure of a gap junction - stomatin complex.**

**Speaker**

Prof. Alexander Gottschalk

12:05-12:25

#### **Insights into the plasma membrane association of Extended Synaptotagmin 3**

**Speaker**

Dr Veronika Thallmair

12:30

16:00

### Short Talk

**Session** | **Location:** FIAS / OSZ, Lecture Hall , Campus Riedberg Ruth-Moufang-Str. 1 60438 Frankfurt am Main

16:00-16:20

#### **Data Driven Modelling of Limb Bud Growth and Morphogenesis**

**Speaker**

Dr Tim Liebisch

16:20-16:40

#### **Initiative of Panoramic Digital Life Model Project**

**Speaker**

Prof. Liangyi Chen

16:45

17:30

### Short Talk

**Session** | **Location:** FIAS / OSZ, Lecture Hall , Campus Riedberg Ruth-Moufang-Str. 1 60438 Frankfurt am Main

17:30-17:50

#### **Multiscale Investigation of Membrane Remodeling during Selective ER-phagy**

**Speaker**

Dr Ramachandra M. Bhaskara

17:50-18:10

**Molecular Digital Twins of Innate Immunity: Insights from Simulations of Human Guanylate-Binding Protein 1**

**Speaker**

Prof. Birgit Strodel

18:15

# Thursday 5 March

11:00

## Short Talk

**Session** | **Location:** FIAS / OSZ, Lecture Hall , Campus Riedberg Ruth-Moufang-Str. 1 60438 Frankfurt am Main

11:00-11:20

### **Nuclear speckle periphery organizes stable intron-retained RNAs into a distinct nuclear retention compartment**

**Speaker**

Dr Josep Blayna

11:20-11:40

### **From Capability to Confidence: RNA Mass Spectrometry as a Criterion for Digital Twins**

**Speaker**

Prof. Stefanie Kaiser

11:45

14:00

## Short Talk

**Session** | **Location:** FIAS / OSZ, Lecture Hall , Campus Riedberg Ruth-Moufang-Str. 1 60438 Frankfurt am Main

14:00-14:20

### **Molecular mechanism of membrane pore formation triggered by PI(4,5)P2-dependent FGF2 oligomerization**

**Speaker**

Dr Fabio Lolicato

14:20-14:40

### **Learning Biomolecular Ensembles from Experimental Cryo-EM Data**

**Speaker**

Mr Lars Dingeldein

14:45

16:00

## Short Talk

**Session** | **Location:** FIAS / OSZ, Lecture Hall , Campus Riedberg Ruth-Moufang-Str. 1 60438 Frankfurt am Main

16:00-16:20

### **The role of SAM domain in $\Delta Np63\alpha$**

**Speaker**

Ms Srilakshmi Kalathil

16:20-16:40

### **Parameterization of Molecular Photoswitches for Martini 3 and their Application in Photopharmacology**

**Speaker**

Mr Thilo Duve

16:45