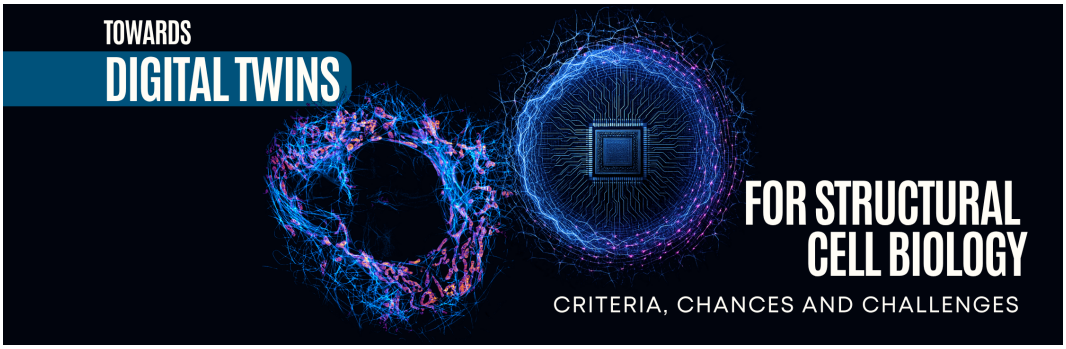
Session Program

2–5 Mar 2026



Giersch International Conference & SCALE Kick-Off

Invited Talks

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

Monday 2 March

17:20

Invited Talks

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

17:20–18:05 **Toward Digital Twins of Development and Disease**

Speaker
Prof. Dagmar Iber

18:05–18:50 **Integrative Structural Biology in the era of Artificial Intelligence**

Speaker
Dr Max Bonomi

18:50

Tuesday 3 March

09:00

Invited Talks

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

09:00–09:45 **How cellular architecture modulates drug response**

Speaker
Prof. Stefan Knapp

09:45–10:30
Bayesian metamodeling of early T-cell antigen receptor signaling accounts for its nanoscale activation patterns

Speaker
Dr Barak Raveh

10:30

11:45

Invited Talks

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

11:45–12:30
Computational tools for building models of entire biological systems from light and electron microscopy

Speaker
Stephan Preibisch

12:30

14:00

Invited Talks

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

14:00–14:45 **From integrative structural biology to cell biology**

Speaker
Dr Andrej Sali

14:45–15:30
Biomolecular condensate architecture of an autophagic cargo at molecular resolution in situ

Speaker
Dr Florian Wilfing

15:30

16:45

Invited Talks

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

16:45–17:30 **Towards Digital Twins of Nuclear Pores**

Speaker
Prof. Martin Beck

18:15

Wednesday 4 March

09:00

Invited Talks

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

09:00–09:45 **Using digital twins to probe the origins of intelligence**

Speaker
Prof. Samantha Wood

09:45

11:00

Invited Talks

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

11:00–11:45 **Towards Digital Twins of the cerebral cortex**

Speaker
Prof. Sasha van Albada

11:45

14:00

Invited Talks

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

14:00–14:45

Digital Twins in biology and medicine: bridging experimental models, simulation, and health systems

Speaker
Prof. Liesbet Geris

14:45

16:45

Invited Talks

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16:45–17:30 **Building a Virtual Embryo - A Single Cell At a Time.**

Speaker
Dr Loic Royer

17:30

Thursday 5 March

09:00

Invited Talks

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

09:00–09:45

Teaching AI the Language of RNA: Foundation Models for Regulation and Therapeutic Design

Speaker
Dr Annalisa Marsico

09:45–10:30

Mining Molecular Data: from Single Cell Genomics to Cryo-E

Speaker
Dr Judith Zaugg

10:30

11:45

Invited Talks

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

11:45–12:30

Digital twins for modelling gene expression: applications to association studies and personalized drug recommendation

Speaker
Prof. Marcel Schulz

12:30

14:45

Invited Talks

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14:45–15:30

Insights into the mitochondrial collective

Speaker
Prof. Suliana Manley

15:30

16:45

Invited Talks

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16:45–17:30

If Machines Can Learn, Who Needs Scientists?

Speaker
Prof. Jeffery Hoch

17:30–18:15

In-cell structural systems modeling

Speaker
Mr Jan Kosinski

18:15