

## **Session Program**

**25-27 Sept 2024**

### **From Multiscale Models to Digital Twins**

#### ***Multiscale Models in Cell Biology II (Chair: Sebastian Thalldair)***

FIAS, Lecture Hall  
Ruth-Moufang-Str. 1 60438 Frankfurt am Main

# Thursday 26 September

09:00

## Multiscale Models in Cell Biology II (Chair: Sebastian Thallmair)

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

09:00–09:45

### Multiscale Simulation of Biomembranes: bridging the gap between simple models and complex reality

**Speaker**

Weria Pezeshkian

09:45–10:30

### The Minimal Cell under a Computational Microscope

**Speaker**

Jan Stevens

10:30–11:00

### Coffee Break

11:00–11:20

### Properties of Long-Chain Lipid Enriched Regions in Biological Membranes: Insights from MD Simulations

**Speaker**

Annemarie Quas

11:20–11:40

### GPCR Surface Facilitates Membrane Crossing of Drug Molecules and Lipids: A Martini 3 Study

**Speaker**

Cristina Gil Herrero

11:45–12:30

### Predicting interactions of polymers with cellular matter

**Speaker**

Fabian Grünewald

12:30