

## List of poster presentations

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The poster sessions take place on

**Monday, 30th January**, with focus on odd poster numbers AND  
**Tuesday, 31st January**, with focus on even poster numbers  
from 19:30 to 21:00 CET on the second floor of the institute's main building.

For each poster contribution there will be one poster wall (width: 97 cm, height: 250 cm) available. The preferred size of a poster is A0, portrait. Please do not feel obliged to fill the whole space.

Posters will be displayed for the full duration of the event.

1. **Aiassa, Lara Victoria**  
*Phenotypic targeting of different macrophages states*
2. **Alsina, Adolfo**  
*Spatiotemporal dynamics of DNA replication in *S. Cerevisiae**
3. **Bektas, Onurcan**  
*Stochastic many particle systems driven by deep learning*
4. **Bisot, Corentin**  
*Imaging the dynamics of symbiotic network architecture reveals a traveling-wave foraging strategy for trade*
5. **Borbely, Reka**  
*Optimal regimes of regulatory sequence evolution*
6. **Busiello, Daniel Maria**  
*Information storage allows for optimal adaptation in chemical signalling networks out-of-equilibrium*
7. **Chhajed, Kartik**  
*Disorder-order transition in epithelial tissues*
8. **Ching (Cheng), Cyan (Xingyi)**  
*A workflow for automatic sampling of membrane proteins in subtomogram averaging*

9. **Das, Suchismita**  
*Flocking like behaviour in active systems with repulsive torques*
10. **Di Terlizzi, Ivan**  
*Estimating entropy production with variances*
11. **Dullweber, Tim**  
*Symmetry breaking through mechanochemical feedback in contact-based signaling*
12. **Dumoulin, Ludovic**  
*A hydrodynamic description of actin cortex using a polymerizing active gel theory with nematic and polar order*
13. **Ehrmann, Andreas**  
*Evolution of cellular packings at early stages of mammalian embryogenesis*
14. **Gehan, Pauline**  
*Mechanics of tissue patterning and shape emergence during vertebrate axial morphogenesis*
15. **Giuglaris, Caroline**  
*Hydrodynamics of active cells migrating in a track*
16. **Gjana, Erbara**  
*Interactions of cytoskeletal elements during phagocytosis in macrophages*
17. **Gomez, Juan Manuel**  
*Determination of the mechanical properties of myosin-driven folding events during *Drosophila* gastrulation*
18. **Hochstetter, Joel**  
*Vertex model for the turnover of squamous epithelial tissues*
19. **Khan, Muzamil Majid**  
*High throughput microscopy screen reveals Dextromethorphan induced membrane trafficking block of COL1 as a novel target against pulmonary fibrosis*

20. **Kothari, Mukund Krishna**  
*Morphogenesis in cellular aggregates through active interactions*
21. **Laxhuber, Kathrin**  
*Stochastic dynamics and heat in phase-separated systems out of equilibrium*
22. **Li, Jia Hui**  
*Cell surface mechanics in germ layer specification*
23. **Marmol, Malo**  
*Spontaneous shear flow in magnetotactic bacterial suspension*
24. **Mañé Benach, Oriol**  
*Mechanical cues regulating stem cells morphogenesis in 3D*
25. **Müller, Ella Linxia**  
*Deciphering mechanisms of symmetry breaking in *C. elegans* embryos*
26. **Nunes Vicente, Jose Filipe**  
*Hold the Line: How spectrins interact with surface mechanics to control cell morphology*
27. **Sadeghi, Hajar**  
*Magnetic tweezers as a means to study a link between mechanics and the microtubule cytoskeleton during early hydra regeneration and axis formation*
28. **Saikia, Eashan**  
*Biophysical modelling of microtubule organisation in trichomes and its significance in morphogenesis*
29. **Setoudeh, Maryam**  
*Continuum mechanics of cell intercalations*
30. **Spoelstra, Kasper**  
*Acute disruption of the basal cytoskeleton triggers cell extrusion from the intestinal epithelium*
31. **Takaki, Ryota**  
*Theory of rheology and aging of protein condensates*

32. **Thalla, Divyendu Goud**  
*Vimentin secretion and its influence on macrophage functionality*
33. **Thalla, Sripada Samhita**  
*Red blood cell cytoskeleton*
34. **Ucla, Pierre**  
*Microscaffolds to study transition between endothelial migration modes*
35. **Usher, Evan**  
*Spontaneous oscillations in the chemotaxis signaling array of *Escherichia coli**
36. **Varma, Akhil**  
*Microswimmer suspensions in 2D porous media*
37. **Vennettilli, Michael**  
*Supporting a fluid phase in epithelial monolayers in three dimensions*
38. **Ver Hulst, Henri**  
*Sound detection by coupled critical oscillators*
39. **Yau, Wan Yee**  
*Thick elastic sheets and complex tissue shape: theory and modeling*