

Session 17: Molecular Modeling and Simulation

Session chairs: Syma Khalid (University of Oxford, UK) & Gianluca Lattanzi (University of Trento, Italy)

O-17.1 Invited speaker

Perspective on Simulating Whole Cells with Martini

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The ultimate microscope, directed at a cell, would reveal the dynamics of all the cell's components with atomic resolution. In contrast to their real-world counterparts, computational microscopes are currently on the brink of meeting this challenge. In this talk, I will provide the state of the art on the use of the latest version of the coarse-grained Martini model to simulate complex systems, and provide a perspective on our current efforts to reach the whole cell level.