

OCPA10 2026 Biophysics Schedule & Timetable

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Day 1 (Monday 22 June)

BP1 | Room 309

Chair: Dongping Zhong

Time	Speaker / Title
1:30–2:00	Can Xie - How Animals Sense the Geomagnetic Field to Navigate?
2:00–2:30	Aihua Xie - As of the latest updates in early 2026, the AlphaFold Protein Structure Database (AFDB), in partnership with EMBL-EBI, hosts over 260 million predicted protein structures.
2:30–3:00	Dihao Wang - Unraveling Design Principles of Chromatic Acclimation and Energy Transport in Purple Bacteria
3:00–3:30	Jiali Gao

BP2 | Room 309

Chair: Can Xie

Time	Speaker / Title
3:50–4:20	Hong Qian - Neo-Gibbsian Statistical Energetics with Applications to Nonequilibrium Cells
4:20–4:50	Hongmei Su - Site-specific Functionality Tuning the Excited-State Dynamics of Thio-nucleobases
4:50–5:20	Wouter Hoff - Traversing the biophysics of amino acid sequence space
5:20–5:50	Dongping Zhong – Dynamics and Mechanism of a dual function CraCry Protein

Day 2 (Tuesday 23 June)

BP3 | Room 309

Chair: Jiali Gao

Time	Speaker / Title
1:30–2:00	Yiqin Gao – New Opportunity for Molecular Simulations, Where AI Meets Physics
2:00–2:30	Wei Zhuang - Topological Control of Biomolecular Condensates: DNA Supercoiling–Driven Compaction and Activity-Induced Gelation
2:30–3:00	Jingyuan Li - Higher-Order Interactions and Water-Driven Fluctuations Affect Condensate Mechanics and Longevity
3:00–3:30	Jie Yan

BP4 | Room 309

Chair: Jie Yan

Time	Speaker / Title
3:50–4:20	Ryota Lino - Single-particle tracking, kinetic simulation, and rational engineering of high performance artificial molecular motors
4:20–4:50	TBC
4:50–5:20	Ryota lino - Single-particle tracking, kinetic simulation, and rational engineering of high performance artificial molecular motors
5:20–5:50	Ning Fang - Understanding Endocytosis and Intracellular Transport with Multidimensional Single Particle Tracking

Day 3 (Wednesday 24 June)**BP5 | Room 309**

Chair: TBC

Time	Speaker / Title
1:30–2:00	Zhi Qi - Long-range transport of biomolecular condensates by Marangoni effect
2:00–2:30	Hu Chen -Mechanical Dynamics of a Slip knotted Protein: Force-Induced Hierarchical Kinetic Locking States and Misfolded Traps
2:30–3:00	Zhongbo Yu - Single-Molecule Mechanical Insights into Telomere Structures, Dynamics, and Protein Interactions
3:00–3:30	Wei Li - Single-molecule mechanical insights into nucleosome regulation by histone variants

BP6 | Room 303

Chair: TBC

Time	Speaker / Title
1:30–2:00	Hongxia Fu – Mechanical Regulation of Blood Clotting in Vascular Systems
2:00–2:30	Yi Cao
2:30–3:00	Bin Chen - Physics of cellular chirality
3:00–3:30	Ce Zhang - Quantitative Biophysics of Mechanically Regulated Transcription Enabled by a Microfluidic-Optical Intelligent Laboratory

BP7 | Room 309

Chair: TBC

Time	Speaker / Title
3:50–4:20	Yongli Zhang
4:20–4:50	Wei Chen
4:50–5:20	Zheng Liu - Developing a DNA-Based Single-Molecule Imaging Toolkit for Mechanobiology Across Time and Space
5:20–5:50	Shimin Le - The E-Cadherin- β -Catenin Linkage as a Mechanochemical Rheostat at Adherens Junctions

*Unless a session has a designated chair, the first speaker serves as the default chair.