

## Biological Physics Division Fachverband Biologische Physik (BP)

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### Overview of Invited Talks and Sessions

#### Invited Talks

BP 1.3	Mon	9:40–10:10	BPa	<b>Cyclic Strain Steers Animal Cells</b> — ●RUDOLF MERKEL
BP 2.1	Mon	9:00– 9:30	BPb	<b>The tortoise and hare: how moving slower allows groups of bacteria to spread across surfaces</b> — OLIVER MEACOCK, AMIN DOOSTMOHAMMADI, KEVIN FOSTER, JULIA YEOMANS, ●WILLIAM DURHAM
BP 7.3	Mon	14:40–15:10	BPa	<b>Towards the mechanical characterization of neuronal network formation</b> — PAULINA WYSMOLEK, FLORIAN HUHNKE, KATJA SALBAUM, JOACHIM SPATZ, ●FRIEDHELM SERWANE
BP 9.1	Mon	14:00–14:30	BPc	<b>From individual to collective intermittent motion: from bacteria to sheep</b> — ●FERNANDO PERUANI
BP 12.1	Tue	9:00– 9:30	BPa	<b>Molecular simulation meets cryo electron tomography</b> — ●GERHARD HUMMER
BP 13.3	Tue	9:40–10:10	BPb	<b>Active behaviors of cellular monolayers.</b> — ●BENOIT LADOUX
BP 21.1	Tue	14:00–14:30	BPa	<b>Predicting Protein and RNA Structures: from statistical physics to machine learning</b> — ●ALEXANDER SCHUG
BP 23.4	Tue	15:00–15:30	BPc	<b>Synthetic cells: De novo assembly with microfluidics and DNA nanotechnology</b> — ●KERSTIN GÖPFRICH

#### Sessions

BP 1.1–1.4	Mon	9:00–11:00	BPa	<b>Cell Mechanics I</b>
BP 2.1–2.4	Mon	9:00–11:00	BPb	<b>Active Biological Matter I (joint session BP/DY/ CPP)</b>
BP 3.1–3.4	Mon	9:00–11:00	BPc	<b>Focus Physics of Stem Cells</b>
BP 4.1–4.6	Mon	11:00–13:30	BPa	<b>Cell Mechanics II</b>
BP 5.1–5.6	Mon	11:00–13:30	BPb	<b>Active Biological Matter II (joint session BP/ CPP/DY)</b>
BP 6.1–6.6	Mon	11:00–13:30	BPc	<b>Systems Biology I</b>
BP 7.1–7.5	Mon	14:00–16:30	BPa	<b>Cell Mechanics III</b>
BP 8.1–8.6	Mon	14:00–16:30	BPb	<b>Bioimaging and Biospectroscopy</b>
BP 9.1–9.5	Mon	14:00–16:30	BPc	<b>Systems Biology II</b>
BP 10.1–10.22	Mon	14:00–16:30	DYp	<b>Posters DY - Fluid Physics, Active Matter, Complex Fluids, Soft Matter and Glasses (joint session DY/BP)</b>
BP 11.1–11.41	Mon	16:30–19:00	BPp	<b>Poster A: Single Molecule, Multicellular, Bioimaging, Focus Sessions, etc.</b>
BP 12.1–12.4	Tue	9:00–11:00	BPa	<b>Single Molecule Biophysics I</b>
BP 13.1–13.4	Tue	9:00–11:00	BPb	<b>Multicellular Systems I</b>
BP 14.1–14.4	Tue	9:00–11:00	BPc	<b>Focus Phase Separation in Biological Systems I (joint session BP/ CPP)</b>
BP 15.1–15.3	Tue	9:30–10:30	DYa	<b>Active Matter 1 - organized by Carsten Beta (Potsdam), Andreas Menzel (Magdeburg) and Holger Stark (Berlin) (joint session DY/BP/ CPP)</b>
BP 16.1–16.6	Tue	11:00–13:30	BPa	<b>Single Molecule Biophysics II</b>
BP 17.1–17.6	Tue	11:00–13:30	BPb	<b>Multicellular Systems II</b>
BP 18.1–18.3	Tue	11:00–12:00	BPc	<b>Cell Mechanics IV</b>

BP 19.1–19.6	Tue	11:00–13:00	DYa	<b>Active Matter 2 - organized by Carsten Beta (Potsdam), Andreas Menzel (Magdeburg) and Holger Stark (Berlin) (joint session DY/BP/ CPP)</b>
BP 20.1–20.3	Tue	12:00–13:30	BPc	<b>Focus Biological Cells in Microfluidics I</b>
BP 21.1–21.4	Tue	14:00–16:00	BPa	<b>Systems Biology III</b>
BP 22.1–22.4	Tue	14:00–16:00	BPb	<b>Focus Phase Separation in Biological Systems II (joint session BP/ CPP)</b>
BP 23.1–23.4	Tue	14:00–16:00	BPc	<b>Focus Biological Cells in Microfluidics II</b>
BP 24.1–24.50	Tue	16:00–18:30	BPp	<b>Poster B: Active Biological Matter, Cell Mechanics, Systems Biology, Computational Biophysics, etc.</b>
BP 25	Tue	17:45–18:30	BPb	<b>Nationale Forschungsdateninfrastruktur (NDFI) (joint session BP/ CPP/ DY/ SOE)</b>
BP 26	Tue	18:30–19:00	BPa	<b>Annual General Meeting</b>
BP 27.1–27.5	Wed	9:00–10:40	DYb	<b>Active Matter 3 - organized by Carsten Beta (Potsdam), Andreas Menzel (Magdeburg) and Holger Stark (Berlin) (joint session DY/ BP)</b>
BP 28.1–28.6	Wed	11:00–13:00	DYb	<b>Active Matter 4 - organized by Carsten Beta (Potsdam), Andreas Menzel (Magdeburg) and Holger Stark (Berlin) (joint session DY/ BP)</b>
BP 29.1–29.4	Wed	14:30–15:50	DYb	<b>Active Matter 5 - organized by Carsten Beta (Potsdam), Andreas Menzel (Magdeburg) and Holger Stark (Berlin) (joint session DY/ BP)</b>

### Annual General Meeting of the Biological Physics Division

Tue 18:30–19:00 BPa