



Experimental living matter physics: from molecular understanding to biohybrid systems

Cells are highly dynamic representatives of living matter. They can be influenced by different parameters, including micro- and nanostructures, mechanics and chemistry. At the same time, they can move over large distances and actively apply significant forces. A highly important question is how cells sense, transduce and respond to multi-scale forces, and which physical principles underlie these processes. These principles can lead to functional biohybrid materials, where cells control the materials to execute autonomous, dynamic, coordinated, and multi-scale behavior.

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