

Special Issue

Biomachines in Synthetic Biology

Message from the Guest Editors

The extraction of lipids and proteins from archaeal and bacterial membranes of interest and their reconstitution into, or fusion with, model membranes exemplifies this approach. Through the purification and exploitation of extant biological structures, we elucidate the structural components, as well as principles, that allow specific biological phenomena to occur. These phenomena include receptor-mediated endocytosis, motility, inter-cell communication, pathogen-host communication, etc. This, in turn, allows us to design systems that emulate such behaviour using materials both natural and synthetic, for purposes as diverse as targeted drug delivery, pathogen capture, biosensing, etc. In this Special Issue, Biomachines in Synthetic Biology, we aim to curate works dedicated to the top-down approach in the production of artificial cells and protocells. We invite submissions that include reviews, both critical and tutorial, technical reports and perspectives. Help us create a collection that will guide the next generation of Synthetic Biologists!

Guest Editors

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