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Liste de diffusion : physique, Chimie et Biologie.

Titre : Systems biomimetism: genes and genesis of a floating heart

Abstract:

We are developing an integrated, multi-scale, and bottom-up approach combining chemistry, physics, microfluidics, cell and systems biology to address the complexity and organization of living systems. This talk will be divided into three main parts:

1. Synthetic epigenetics: reversible photocontrol of gene expression systems based on light-induced nucleic acid conformational changes
2. Artificial cells in a living world
3. Living cells in an artificial world.

We will finally show some recent results on the manipulation of droplets using light.

