



Nanostructures Based on Interlocked DNA Architectures

by

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Abstract:

I will discuss some recent data that combine our expertise in aptamer research with DNA nanotechnology by generating interlocked DNA architectures such as entirely double-stranded DNA-rotaxanes. Because of DNA's programmability and structural robustness, DNA rotaxanes with interlocked yet free to move parts are an exciting new approach that promises to conjoin the areas of DNA nanotechnology and of interlocked molecular architectures, which will greatly impact synthetic biology and nanorobotics.

Friday, October 18th, 2013, 13:00

Room PH 127