Programmed Molecular Assembly

Research emphasis:

By engineering biomacromolecules (especially DNA and proteins) we program molecular self-assembly as well as the directed assembly of other, functional nanomaterials for a variety of applications in biomedical fields and for the bionanofabrication of nanophotonic and nanoelectronic devices and circuits.

Application:

- Anticoagulants (with antidotes)
- Nanoscale ligand presentation to cells
- Bionanofabrication

Collaboration potential:

- Custom molecular assemblies
- Biomolecular engineering
- Bio- and chemo-sensing
- Nanoelectronics

Selected publications:


