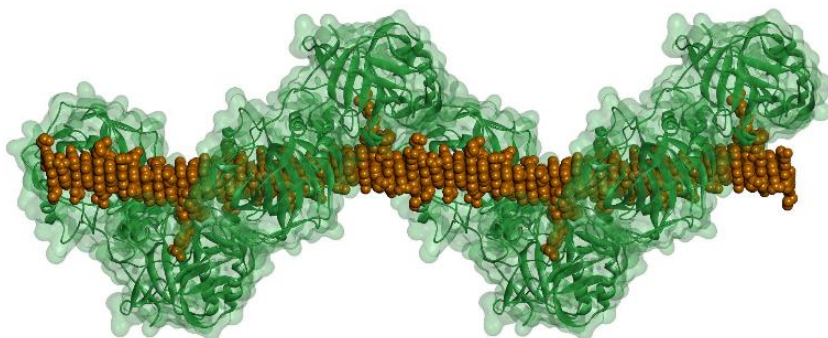
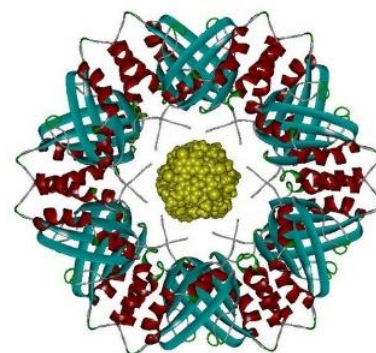
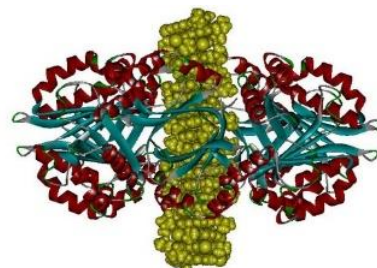


PhD (or MSc then PhD) thesis. “Crystalline nucleic acid and protein networks and assemblies”

Desired profile: chemist, biochemist, or nanotechnologist interested in biosupramolecular science and crystallography.

Due to their complex structures, proteins and nucleic acids offer innumerable opportunities to design binding artificial interfaces that can serve to produce large self-assembled discrete objects – for example capsules – or three dimensional lattices potentially useful as biomolecular containers or biomaterials. The project aims at exploring new concepts and design principles leading to unprecedented architectures with atomic precision. The objects will be characterized by physical techniques, first of which x-ray biocrystallography. Precursors will be either from commercial sources (nucleic acids) or produced by recombinant expression (proteins). Establishing general rules is expected to allow for the direct computer-assisted design of the final assemblies.

Do not hesitate to come and discuss about the project.



Group website: <https://huc.cup.uni-muenchen.de/>

Applications:

By e-mail to Prof. Ivan Huc (ivan.huc@cup.lmu.de)