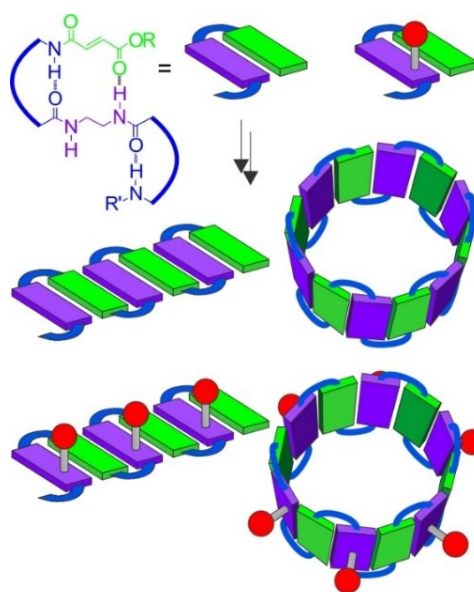


Post-doctoral Position - Guichard Group

Organic & Supramolecular Chemistry, CBMN-IECB, Bordeaux, France

Project: This project aims at developing foldamer-based approaches for mimicking multi-stranded β -sheet architectures encountered in proteins, in particular β barrels. Preliminary studies have shown the ability to design and synthesize sequence-specific synthetic oligomers that fold into well-defined β -sheet secondary structures (i.e. foldamers), akin to those found in proteins, making it now possible to envisage the de novo design of more complex multi-stranded artificial β -sheet architectures.

The objective of this project is to build molecules designed to fold rationally into β -barrel by forming intramolecular hydrogen bonds, using a combination of "artificial β -strand" and " β -turn mimic" motifs. Functionalization will then be considered in order to modulate their solubility, give them surface or substrate recognition properties, and study their self-assembly properties.



Where: This project will be developed in the group of the Prof. Gilles Guichard (<https://www.guichard-iecb.fr/>) at IECB (<http://www.iecb.u-bordeaux.fr/>) which is a dynamic interdisciplinary research center located on the campus of the **University of Bordeaux**, France. The laboratory is perfectly equipped for chemical synthesis and the institute is equipped with technology platforms bringing the state-of-the-art scientific instrumentation and expertise in structural biology and preparative and analytical techniques.

Profile: The candidate should have a PhD in Organic chemistry and should have a strong background in synthetic Organic Chemistry including solid-phase synthesis and in supramolecular chemistry. An experience in peptidomimetic chemistry would be preferred. The candidate should have a good experience in structural analysis in solution and in the solid state.

Position: This position is for a period of **12 months from 01/03/2020**, which may be renewed. The candidate will be offered a gross salary of 2600€ minimum according to experience.

Application: Candidates interested should send their application file by email, including a CV and a motivation letter, to Dr. Christel Dolain (c.dolain@iecb.u-bordeaux.fr) and Dr. Gilles Guichard (g.guichard@iecb.u-bordeaux.fr).