

# 化学科講演会

企画：理学部化学科

## Aromatic Oligoamide Foldamers : From Secondary to Quaternary Structures

講師： Dr. Victor Maurizot

CBMN, Université de Bordeaux-CNRS

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場所： 化学科第1講義室(理1-415)

Over the last decades, strong efforts have been made to develop new molecular backbones for the construction of original, predictable, and well defined molecular architectures: the foldamer chemistry. These researches were mainly focused on the elaboration of architectures that mimic secondary structures of biomolecules (helices and sheets) and have led to a wide variety of building blocks that can be used to build such molecular architectures. The second step in this process of biomolecular mimicking is the construction of more complex structures such as tertiary and quaternary structures which are key intermediates to reach functions. Therefore some efforts have been done to design molecular architectures (mostly helices) that have specific side chains in their outer surface to specifically interact with biomolecules or other foldamers.

In this context we have focused our attention into the design, the synthesis and the characterization of oligoamide-quinolines foldamers that have side chains designed to interact with each other to form helix-turn-helix motifs and helix bundles. This study is the first step to create finite and controlled organized molecular assembly in order to create functions from non-natural molecules.

