

# Fluorinated and multivalent glycomimetics as antibacterial agents

**Stéphane P. Vincent<sup>1</sup>**

<sup>1</sup> Department of Chemistry. University of Namur. Namur. Belgium.  
e-mail: stephane.vincent@unamur.be

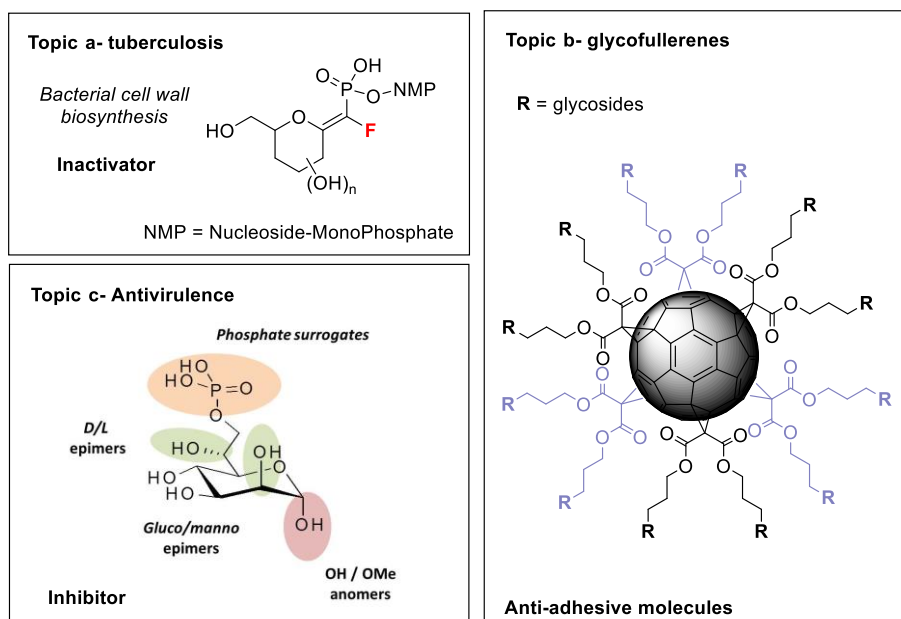
The laboratory of Prof. Vincent is specialized in bio-organic chemistry, with a special emphasis in glycosciences. In particular, the laboratory is interested in the mechanistic and inhibition studies of essential enzymes involved in the bacterial cell wall biosynthesis and the colonization processes by important human pathogens.

Three **main research axes** are developed:

**Topic a- Novel strategies to fight tuberculosis:** inhibition and mechanistic study of the galactofuranose biosynthesis

**Topic b- The glycofullerenes** as bacterial antiadhesive molecules and glycosyltransferase inhibitors

**Topic c- Synthesis of inhibitors** of the LPS (LipoPolySaccharide) biosynthetic pathway: towards *antivirulence* molecules.



**Figure 1** – Typical molecules synthesized in the CBO laboratory.