Lipid specificity of surfactin interaction with plant plasma membrane

L. Lins¹, M. Ongen² and M. Deleu¹

Université de Liege, Gembloux Agro-Bio Tech, Gembloux, Belgium, ¹Laboratory of Molecular Biophysics at Interfaces, ²Microbial Processes and Interactions Laboratory E-mail: magali.deleu@uliege.be

The lipid specificity of the interaction is a key factor for the detailed understanding of the penetration and/or activity of lipid-interacting molecules and the mechanisms of certain diseases. Further research in this area is expected to enhance drug discovery and the development of membrane-active molecules for many areas such as health, plant protection or microbiology.

In this poster, some "in vitro" and "in silico" complementary biophysical techniques useful to obtain information on the specificity of lipids on a molecular scale will be exposed. The approach used will be illustrated by a study carried out on a cyclic lipopeptide, surfactin, which has properties that elicit the plant's defense mechanisms [1].

References