

Lipid specificity of surfactin interaction with plant plasma membrane

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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

- [1] G. Henry, M. Deleu, E. Jourdan, P. Thonart and M. Ongena, Cellular Microbiology **13**, 1824–183 (2011)