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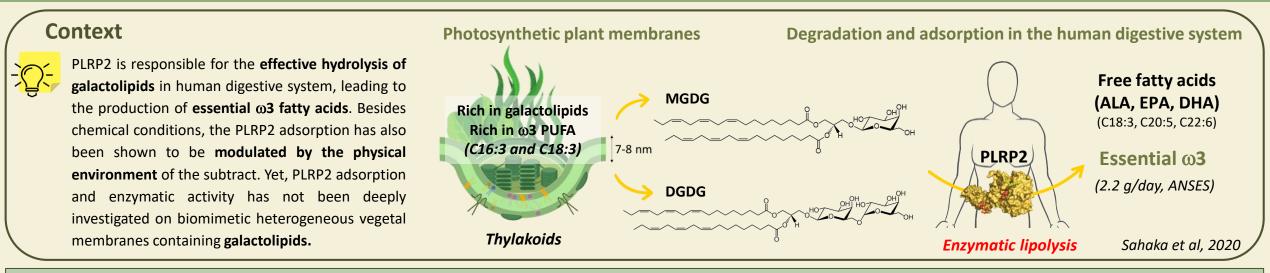


ENZYMATIC DIGESTION OF HETEROGENEOUS PLANT GALACTOLIPID ASSEMBLIES BY PANCREATIC LIPASE RELATED-PROTEIN 2 (PLRP2)

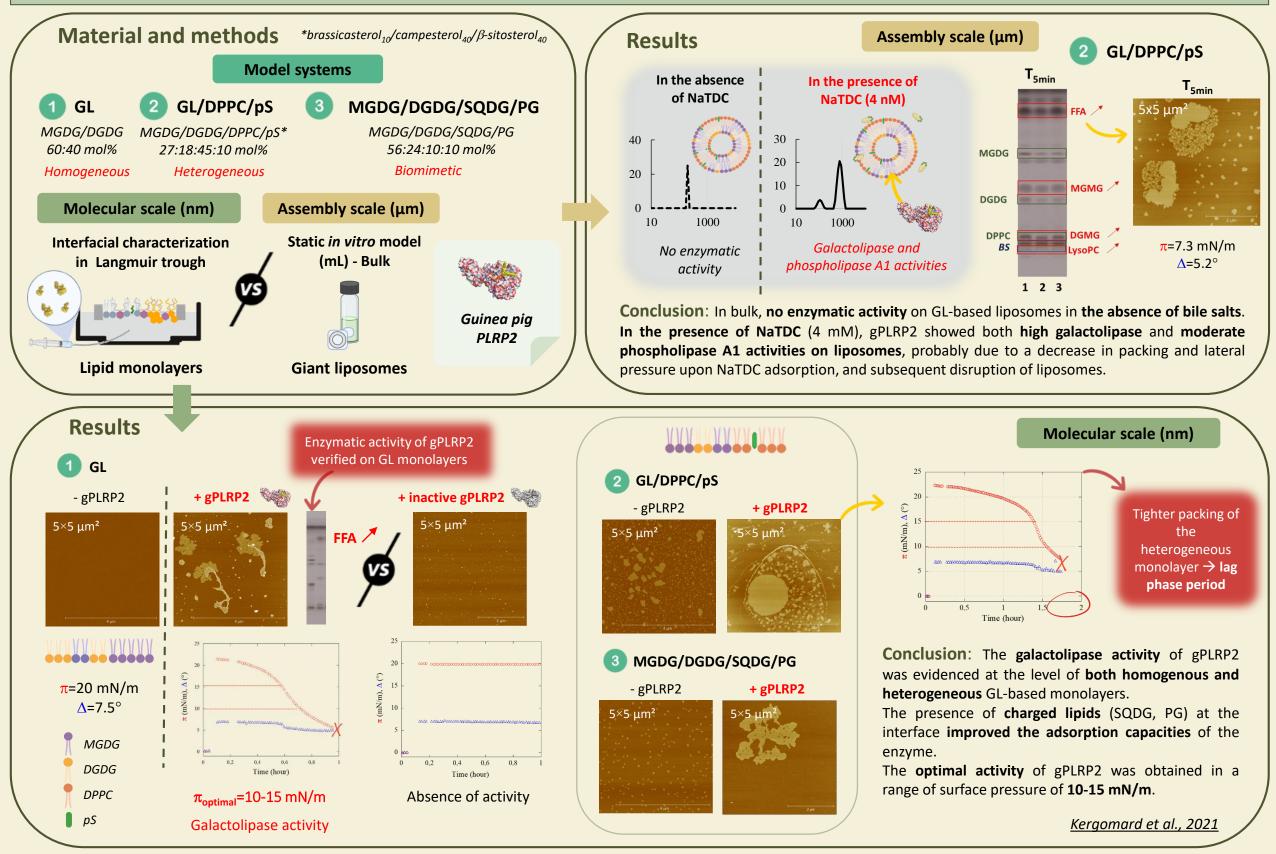
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Kergomard et al., Biochimie 2022 - under review



Objectives: to understand the **impact of the physical environment** on the adsorption and lipolytic activity of **PLRP2** onto **heterogeneous biomimetic vegetal membrane** of increasing complexity using complementary biophysical tools (tensiometry, ellipsometry, atomic force microscopy) and *in vitro* static digestion.



Conclusions: Galactolipase and phospholipase A1 activities of gPLRP2 have been shown on model GL-based monolayers, but also on liposomes in presence of bile salts. It is now tempting to investigate whether gPLRP2 can act directly on plant membranes. Indeed, the galactolipase activity of PLRP2 at the level of natural membrane assemblies could open the way to the development of plant-based dietary alternatives to vectorize ω 3 PUFA, and contribute to the rebalancing of human and animal diets.

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Infantes-Garcia et al., 2022 Mateos-Diaz et al., 2018

