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## Exploring the effect of lipidome composition on membrane properties

Organisms adjust the lipid composition of their cell membranes to adapt to their surroundings, but the mechanism behind this process is not well understood due to the complexity and specificity of the lipidome. Our research proposes using *Mesoplasma florum* as a model organism to study membrane lipidome remodeling. This simple organism can easily uptake lipids from different diets and modify its lipidome accordingly. By limiting the lipid variety in the *Mesoplasma* diet, we can observe how the membrane lipidome adjusts to achieve homeostasis. Our results show that *Mesoplasma florum* is a useful platform for studying lipids *in vivo* and expanding our understanding of membrane remodeling principles and individual lipid functionality.

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