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Authors: Mohamed Elderdfi, Aleksander F. Sikorski

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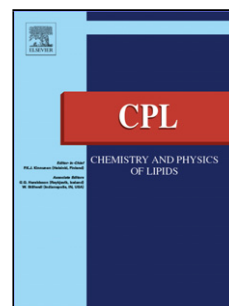
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## Langmuir-Monolayer Methodologies for Characterizing Protein-Lipid Interactions

Mohamed Elderdfi and Aleksander F. Sikorski

*Department of Cytochemistry, Faculty of Biotechnology, University of Wrocław, 50-383*

*Wrocław, Poland*

### Highlights

- Langmuir monolayer is a simple technique to study protein-lipid interactions.
- Pressure-area isotherms reflects the phase state of the monolayer upon protein-lipid interaction.
- Langmuir monolayer approaches facilitates the miscibility studies of mixed protein-lipid monolayers.

### ABSTRACT:

The Langmuir-monolayer technique is a convenient method that allows for continuous control over several membrane-specific parameters, such as molecular packing, physical states, lateral pressure and lipid composition. Lipid monolayers are well suited for applications involving the Langmuir-monolayer technique: they are very well-defined, stable, homogeneous and two-dimensional, and they have planar geometry.

In this review, some features of monolayer methodologies based on the Langmuir-monolayer technique are described, with a focus on the step-wise procedures that can be applied to

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