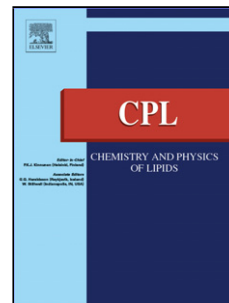


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**Interaction of the  $\beta$  Amyloid - A $\beta$ (25-35) - Peptide with Zwitterionic and Negatively  
Charged Vesicles with and without Cholesterol**

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**Highlights**

There are two differently-interacting populations of A $\beta$ (25-35)

One population of A $\beta$ (25-35) is unambiguously located in the hydrophobic phospholipid layer below the hydrophilic headgroup layer

Both hydrophobic and electrostatic interactions between A $\beta$ (25-35) and phospholipids are important

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