Membrane interactions and inhibition of amyloid fibril aggregation

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Amyloid fibrils interact with membranes and possess cytotoxic potential and accordingly inhibiting the membrane activity of amyloid fibrils may be a strategy for developing therapies against amyloid diseases. We have studied the effects of several groups of fibril inhibitors upon membrane interactions of the species formed. *Polyphenols* have been demonstrated to inhibit the formation of fibrilar assemblies, while another group of inhibitors are peptides derived from the C terminus of Aβ42, and where shown to interfere with Aβ42 assembly. By using lipid vesicles as a membrane model we demonstrate that those inhibitors can affect membrane activity and disruption of amyloid aggregates.