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Stellingen

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Parkinson’s Protein α-Synuclein: Membrane Interactions and Fibril Structure

1. The conical shape of Cardiolipin and not its charge is the decisive factor for α-Synuclein (αS) binding to the inner mitochondrial membrane. [Chapter 2]

2. Neither a model membrane with a charge density $\rho = 1$ nor one with a low charge density ($\rho \leq 0.3$) is suitable to investigate the effect of phosphorylation on αS-membrane binding. [Chapter 3]

3. The biggest obstacle to study the intrinsic fold of αS in fibrils is the polymorphism of the fibrils. [Chapter 4 and 5]

4. A single technique is not sufficient to obtain a realistic picture of the fibril-fold of αS. [chapter 5]


7. The sulfhydryl modification of the styrene-maleic acid copolymer (SMA-SH) described by Lindhoud et al. makes SMA-SH a potential target for spin labelling, which can be


9. Ignorance creates an illusion of confidence that knowledge does not.

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