

University of Groningen

The simulation studies of the interplay of peptides with lipids

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Stellingen

- 1) Molecular dynamics simulation is a powerful tool for shedding light on the complexity of peptide-lipid interplay.
– (This thesis, Chapter 2, 3, 4)
- 2) The charge and size of antimicrobial peptides play important roles in peptide induced lipid separation.
– (This thesis, Chapter 2)
- 3) Lipid packing effects underlie the partitioning of antimicrobial peptides to disordered domains in phase separated membranes.
– (This thesis, Chapter 3)
- 4) Membrane curvature happens commonly in animals, plants, and fungi, but the molecular mechanisms involved provides for exciting areas of research.
- 5) It is important to understand scientific problems, yet getting a new way to think about them is more important.
- 6) PhD life has two rules: #1 Never quit #2 Always remember rule # 1.
- 7) It is not the strongest of the species that survives, nor the most intelligent, but the one most responsive to change.
– Charles Darwin