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Universiteit Leiden



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Stellingen

Behorende bij het proefschrift

Gold nanoparticle-peptide conjugates for biomedical applications

1. There is a necessity for the development of new peptide-based GNP coatings. **Chapter 1** of this thesis.
2. The self-assembly properties of peptide amphiphiles are dependent on the peptide sequence. **Chapter 2** of this thesis.
3. The surface curvature of spherical gold nanoparticles is the determining factor when choosing a suitable stabilizing coating. **Chapter 3** of this thesis.
4. Peptide amphiphiles can stabilize GNRs, whereas peptides have a severely limited stabilizing capacity. **Chapter 4** of this thesis.
5. The original surface chemistry of gold nanoparticles plays a defining role in their subsequent stabilization by peptide amphiphiles. **Chapter 3** and **Chapter 4** of this thesis.
6. The size and shape of an antigen delivery vehicle strongly affects antigen presentation in bone marrow-derived dendritic cells. **Chapter 5** of this thesis.
7. There is no universal solution for optimal antigen display.
8. Multidisciplinary studies are critical for scientific advancement and understanding, but are challenging to undertake effectively.
9. Disconnecting and reconnecting not only helps to resolve PC and equipment issues, but also aids a researcher over the course of a challenging project.