5. The functionalized biocompatible nanoparticle of claim 1 wherein the peptide includes five to nine basic amino acids.

6. The functionalized biocompatible nanoparticle of claim 1 wherein the peptide includes nine or more basic amino acids.

7. The functionalized biocompatible nanoparticle of claim 5 wherein the protein is a transcription factor.

8. The functionalized biocompatible nanoparticle of claim 7 wherein the transcription factor is selected from the group consisting of Oct4, Sox2, Nanog, Lin28, cMyc, and Klf4.

9. Use of a functionalized biocompatible nanoparticle according to claim 1 for the manufacture of a medicament for ~~A method of~~ changing a cellular functionality within a mammalian cell~~, comprising administering an effective amount of a functionalized biocompatible nanoparticle of claim 1 to the cell and changing the cellular functionality within the cell~~.

10. The ~~method of changing a cellular functionality within a mammalian cell~~ use according to claim 9, wherein the changing of the cellular functionality involves a change in a physico-chemical property of the cell.

11. The ~~method of changing a cellular functionality within a mammalian cell~~ use according to claim 9, wherein the changing of the cellular functionality involves a change in proliferative property of the cell.

12. The ~~method of changing a cellular functionality within a mammalian cell~~ use according to claim 9, wherein the changing of the cellular functionality involves a change in surviving ability of the cell.

13. The ~~method of changing a cellular functionality within a mammalian cell~~ use according to claim 9, wherein the changing of the cellular functionality involves a change in morphological phenotypical property of the cell.

14. The ~~method of changing a cellular functionality within a mammalian cell~~ use according to claim 9, wherein the changing of the cellular functionality involves an acquired ability of the cell to make a new cell type including a stem cell or a more specialized cell type.