



## Biomaterials and nanoparticles for improved delivery of cell and protein therapeutics for heart repair

**Acronym:** NanoReHeart

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“Explore new therapeutic possibilities for the treatment of myocardial infarction”

The aim of this project is to explore new therapeutic possibilities for the treatment of myocardial infarction based on nanotechnology, biomaterials and stem cell therapy. The regeneration capability of factors stimulatory for stem/progenitor cells, angiogenesis and myogenesis (IGF and HGF) while administered as sustained release nanoparticles will be investigated. Furthermore, adoptive transfer of stem/progenitor cells from different sources, the blood and the adipose tissue will be also determined in an autologous preclinical porcine model of myocardial infarction.

### Improved delivery of cell and proteins for heart repair

