



Engineered nanotools for advanced cell therapies

Acronym: CytoNanoHeal

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“Delaying disease progression and relieving the pain in osteoarthritis”

CytoNanoHeal aims at engineering innovative delivery systems to boost the therapeutic effect on osteoarthritis as a proof of concept in regenerative medicine. A designed nanoconstruct formed by injectable hydrogels will be built up. This nanostructure will house a patent-protected anti-inflammatory cocktail for delaying disease progression and relieving the pain, and stem cells, for cartilage regeneration. CytoNanoHeal will impact not only in society due to the increase in quality of life of patients by reducing pain and inflammatory effects, but also technologically for the development of new tools applied to cell and tissue-based therapies.

