

ChondroNanoNet-2: Nanopatterned Cell Carriers for Improved Architectural Communication Networks in Chondrogenesis towards Osteoarthritic Joint Repair-2

ADRESSED PATHOLOGY:

Chronic diseases, Osteoarthritis (OA)

GENERAL OBJECTIVE:

The objective of the project is the development of nanopatterned stem cell carriers that allow the establishment and maintenance of the architectural communication network of cartilage, for an improved cell preconditioning *in vitro*, transplantation and delivery to the damaged area of the joint. The resulting constructs, with an improved regeneration capability, are expected to serve in cell therapy treatments to restore the widespread cartilage defects generated by osteoarthritis (OA).

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