DEVICE FOR ANCHORING FILAMENTOUS STRUCTURE WITH BIOLOGICAL TISSUE

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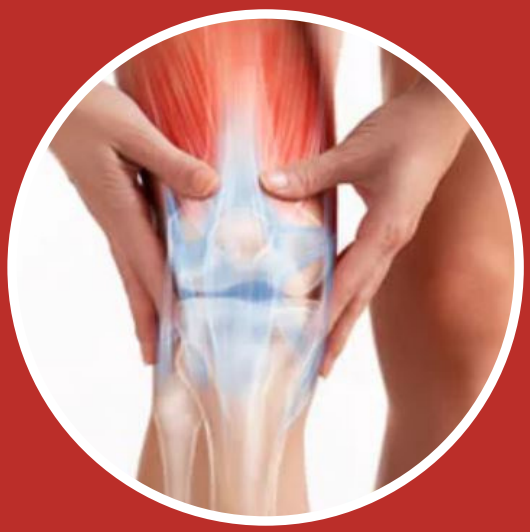

Device for anchoring the filamentous structure with biological tissue. Filamentous structure means a hierarchical scaffold able to replace, reconstruct, regenerate, simulate the tendon or ligament.

Protection: Italy, with the possibility to extend internationally

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INVENTION

In tissue engineering, scaffolds for the adhesion, proliferation, and migration of cells are known in order to reconstruct damaged biological tissue. These supports or scaffolds are characterized by electrospun nanofibers and they are anchored in vivo to the bone tissue on which the tendon / ligament to be reconstructed must then be grafted.
The invention regards a device for anchoring the filamentous structure with biological tissue that mimics the mechanical characteristics of the tendon/ligament/bone interface. This device is able to ensure complete integration of the tendon system - muscle and / or ligament to the bone.

ADVANTAGES

- Complete integration and regeneration of biological tissue

APPLICATIONS

Cholangio-MRI.

CONTACTS

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