

Special Issue

Healing of Ligaments and Tendons: Tissue Engineering and Models 2.0

Message from the Guest Editor

This Special Issue will present insights into novel approaches for tendon and ligament reconstruction based on tissue engineering or cell-free strategies using natural or synthetic biomaterials. As natural biomaterials for tendon/ligament reconstruction collagen-based scaffolds, decellularized tendons/ligaments or other dense connective tissue-derived extracellular matrices are of high interest. Valuable three-dimensional in vitro models including the application of bioreactors and versatile mechano-stimulatory devices which are known to promote in vitro teno-/ligamentogenesis should be presented for initial testing of implants, but also preclinical in vivo implantation models are welcome which allow monitoring of the complex healing process. In addition to reconstruction of the midsubstance of tendons/ligaments, the neoformation of an enthesis-like interface between tendon/ligament and bone is an important prerequisite for stable reconstruction; hence, this unique transition tissue may also be addressed.

Guest Editor

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