

## Special Issue

# Ligament/Tendon and Cartilage Tissue Engineering and Reconstruction

### Message from the Guest Editor

Ligaments, tendons and cartilage share many tissue characteristics, such as the following: a poor or absent blood supply, a low cell content, and an abundant collagenous extracellular matrix. Some of these properties may explain their limited self-healing capacity during tissue injury. Hence, tissue engineering (TE) represents a promising strategy for tissue reconstruction. Using novel biomimetic biomaterials as chondro-/tenogenic cell carriers represents an innovative culturing approach; e.g., using smart bioreactors and versatile bioprinting strategies could support the regeneration of these tissues with tissue engineered implants. Cells recruited for TE, the tailored release of bioactive factors, and targeted cell lineage differentiation are also of interest. Novel data describing in vivo TE results gained using animal models are also welcome. Lead by and assisted by our Topical Advisory Panel Member, Dr. Clemens Gögele (Paracelsus Medical University), this Special Issue will focus on the most recent developments in tendon/ligament and cartilage tissue engineering, comprising in vitro and in vivo studies.

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### Guest Editor

Prof. Dr. Gundula Schulze-Tanzil  
Institute of Anatomy and Cell Biology, Paracelsus Medical University,  
Nuremberg and Salzburg, 90419 Nuremberg, Germany

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### Deadline for manuscript submissions

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## International Journal of Molecular Sciences

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
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Prof. Dr. José L. Quiles  
Department of Physiology, Institute of Nutrition and Food Technology  
"Jose Mataix", Biomedical Research Center, University of Granada,  
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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