

Special Issue

Achilles Curse and Remedy: Tendon Diseases from Pathophysiology to Novel Therapeutic Approaches

Message from the Guest Editor

Achilles, the Greek hero, suffered an injury at his Achilles heel, leading to his death. Tendons connect bone to muscle and hence, are critical for the function of the musculoskeletal system. Due to societal ageing and a rise in overuse activities or extreme sports by youngsters, tendon diseases present major clinical challenges. A leading cause for tendon rupture is tendon tissue degeneration that can be induced by mechanical overuse (via matrix), neo-vascularization and/or tendon cell and tissue aging. So far there are only few approved treatments for tendinopathy which are targeted against specific molecular processes, and patients are always subjected to surgical or conservative therapy. This special issue will focus on the role of endogenous cells, exogenous cells (vascular, inflammatory, neuronal), or niche structural and biomechanical properties as well as on novel medicinal and tissue engineering therapeutic approaches to re-define the status quo in the field of tendon disease and therapy. Articles submitted can either be original works or full reviews.

Guest Editor

Prof. Dr. Denitsa Docheva

Laboratory of Experimental Trauma Surgery, Department of Trauma Surgery, University Regensburg Medical Centre, Franz-Josef-Strauss-Allee 11, 93053 Regensburg, Germany

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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