

統合生命科学研究科 プログラム共同セミナー

日時： 令和 8 年 2 月 2 日（月） 15:30 ～ 16:30
場所： 理学部 E209講義室
講師： Prof. Dr. Denitsa Docheva
(University of Würzburg, Germany)



演題： Deciphering tendinopathy in three acts: burden, understanding and management
(腱障害（テンドノパチー）を 3 つの視点から読み解く：
ー疾病負担・病態理解・治療とマネジメントー)

要旨： Tendons are matrix-dominated tissues capable of withstanding substantial tensile forces; nevertheless, injuries can occur even following low-energy insults. Tendinopathies represent a major clinical burden, accounting for approximately 30–50% of musculoskeletal-related primary care visits worldwide. These conditions are characterized by pain, swelling, and restricted range of motion, affecting individuals of all ages during both occupational and recreational activities. In the European Union alone, tendinopathies generate an estimated €800 million in annual healthcare costs.

Despite significant advances in our understanding of tendon structure, cell biology, biomechanical environments, and cell–biomaterial interactions for regenerative applications, research in tendon biology and pathology remains fragmented.

In this talk, I will first address the socioeconomic burden of tendinopathy and its end-stage manifestation, tendon rupture. I will then provide an overview of the current understanding of tendinopathy pathogenesis, highlighting the key cellular and molecular players involved. Finally, I will discuss the evolution of tendinopathy management strategies and present insights from our basic and preclinical research that may contribute to the development of novel therapeutic approaches.

* 本セミナーは、統合生命科学研究科セミナーとして
プログラム共同セミナーの対象です。

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