

# 大学院特別講義

(医歯学先端研究特論)

(生命理工医療科学先端研究特論)(医歯理工学先端研究特論)

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記

**演題 : Muscle stem cells and their niche: evolution, development and regeneration**

**講師 : Shhragim Tajbakhsh 先生**

Institut Pasteur (パスツール研究所)・Stem Cells & Development Unit, Dept. of Developmental & Stem Cell Biology, ユニット長

日時 : 2025年 2月27日(木) 17:00~19:00

場所 : M&D タワー 2階 共用講義室 1

**要旨 :** The evolution of the tetrapod neck involved profound rearrangements of the musculoskeletal system, with ancestral muscle groups co-opted to form this hallmark of terrestrial adaptation. Comparative embryology reveals that the expansion of mesodermal populations into head and trunk domains underpinned this transition. We also investigate muscle stem cells (MuSCs) and their niche during regeneration. Using innovative intravital imaging and ex vivo tracking, we show that in Duchenne Muscular Dystrophy (DMD), MuSCs exhibit impaired migration, precocious differentiation, and unbalanced divisions due to niche dysfunction and intrinsic defects. These findings identify DMD as a stem cell disease and suggest pathways to restore regeneration.

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