第 551 回 難 研 セ ミ ナ ー
第 124 回 難治疾患共同研究拠点セミナー
第 1 回 難病筋疾患研究プロジェクト 2 セミナー

下記により難研セミナーを開催しますので、多数御来聴下さい。

記

日　時：平成２８年１１月１０日（木）１７：００～１８：３０
場　所：　Ｍ＆Ｄタワー２３階セミナー室
演　者：　Dr. Frédéric Relaix
(フランス UPEC - Paris Est-Creteil University-INSERM IMRB U955)
演　題：　Molecular and cellular mechanisms regulating satellite cell quiescence and growth arrest.
要　旨：

A major challenge in the muscle field is to understand how growth arrest is coordinated in satellite cells (i.e. muscle stem cells) during muscle homeostasis/maintenance and repair. Skeletal muscle shows a remarkable capacity to regenerate after severe injuries, which is attributed to its satellite cell population. Once muscle growth is completed at early postnatal life, this stem cell population enters into a non-cycling, quiescent state. However, in response to specific needs, such as injury, it is rapidly activated to provide differentiated progeny for muscle repair as well as to self-renew the quiescent pool.

We have designed a protocol to isolate the satellite cells following direct fixation and defined molecularly the early activation following exit from quiescence. In addition, muscle differentiation is a coordinated process of tissue-specific gene expression and irreversible cell cycle exit. We have analyzed the mechanism of growth arrest during terminal differentiation, including the role of Cyclin Dependent Kinase Inhibitors p21 and p57. I will present data regarding p57 and p21 expression and function *ex vivo* and *in vivo*, in adult myofiber culture and regeneration models.

連絡先：　細胞分子医学分野　大石　由美子　（内線４９７８）
共催：分子病態分野　木村　彰方、難病筋疾患研究ﾌﾟﾛｼﾞｪｸﾄ２