

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)

下記により大学院特別講義を行いますので、多数ご来聴ください。

記

1. 講師 Harvard Medical School, Brigham and Women's Hospital,
Department of Medicine,
Division of Renal Medicine · Instructor on Medicine
市村 隆治 先生
2. 演題 LMNA/C Promotes Establishment of Maladaptive
Phenotypes of Proximal Tubules in Chronic Kidney Diseases
3. 日時 2024年6月20日(木) 17:00~19:00
4. 場所 大学院講義室3 (MDタワー11階)
5. 実施言語 英語 (English)

6. 要旨

Maladaptive repair of proximal tubular epithelial cells (PTECs) after acute kidney injury (AKI) promotes the acquisition of a cellular senescence phenotype which contributes to fibrosis and the development of chronic kidney disease (CKD). A type lamins are alternative spliced products of the LMNA gene and are essential components of the nuclear lamina. Lamin A/C accumulated in the nuclear lamina in the proximal tubules of CKD patients. In the mouse exposed to kidney injury, PTECs with senescent characteristics had increased laminA/C in their nuclear lamina. Treatment with an inhibitor of prelamin A/C processing, prevented laminA/C accumulation and eliminated PTECs with senescent characteristics resulting in attenuated inflammation. In summary, inhibition of LMNA synthesis during the recovery phase of AKI, with eliminates maladaptive repairing cells and results in less fibrosis and progression from acute to chronic injury.

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