

# 大学院特別講義

(医歯学先端研究特論) (生命理工学先端研究特論)

(医歯理工学先端研究特論)

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記

演題: Intrinsic and extrinsic regulation of bone and tooth

講師: 二藤 彰 先生

(鶴見大学歯学部薬理学講座 教授)

日時: 平成25年7月26日(金)

17時30分 ~ 19時30分

場所: 演習室 (歯科棟南 4階)

講演要旨:

Coordinated expression of critical molecules determines cell fate.

Modifications of histone tails affect chromatin states, thereby regulate expression of groups of genes during cell fate decision and differentiation.

We focus on histone methylations and their responsible enzymes, and have investigated their function in the regulation of bone and tooth.

We found that dynamic change of methylation status at H3K9 and expression of histone modification enzymes in bone and tooth development.

Our preliminary investigation by conditional deletion of a histone modification enzyme gene suggests that intrinsic regulation at histone tails is important for development of bone and tooth.

The external environment modulates local bone growth. Using co-culture with nonskeletal cells and tooth replantation model, we suggests that extrinsic factors in local environment may also play important roles in regulating differentiation and survival of osteoblastic cells.

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