

# 第228回 Bone Biology Seminar

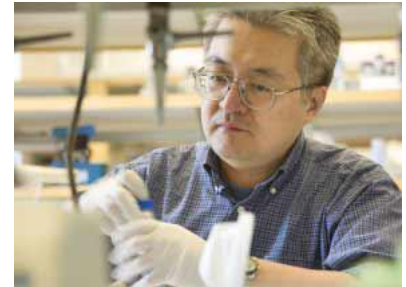
第57回グローバルCOE講演会共催  
歯と骨の分子疾患科学の国際教育研究拠点  
ーデント・メドミクスのインテリジェンスハブー

演 題 : The ERK MAPK pathway in skeletal development.

日 時 : 平成25年1月31日(木) 17:00~

場 所 : M&Dタワー 21階

大学院講義室1



講演者: Shunichi Murakami, M.D., Ph.D.

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- Murakami S, Kan M, McKeehan WL, de Crombrughe B: Up-regulation of the chondrogenic Sox9 gene by fibroblast growth factors is mediated by the mitogen-activated protein kinase pathway. *Proc Natl Acad Sci USA* 97:1113-1118, 2000.
- Murakami S, Lefebvre V, de Crombrughe B: Potent inhibition of the master chondrogenic factor Sox9 gene by interleukin-1 and tumor necrosis factor-alpha. *J Biol Chem* 275:3687-3692, 2000.
- Murakami S, Balmes G, McKinney S, Zhang Z, Givol D, de Crombrughe B: Constitutive activation of MEK1 in chondrocytes causes Stat1-independent achondroplasia-like dwarfism and rescues the Fgfr3-deficient mouse phenotype. *Genes Dev* 18:290-305, 2004.

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