

# 大学院特別講義のご案内

- ◆ 日時: 2013年5月28日(火) 18:00~19:00
- ◆ 場所: F棟4階 大学院セミナー室
- ◆ 講師: Prof. Hyeon-Woo Lee  
(Dept. of Pharmacology,  
School of Dentistry, Kyung Hee University)
- ◆ 演題: Novel transmembrane protein TMEM126A couples with CD137L reverse signals in myeloid cells: its potential roles in Toll-like receptor system
- ◆ 要旨: Members of the TNF family can promote signals in myeloid cells and both positively and negatively regulate the production of pro-inflammatory cytokines depending on the target myeloid cell type. Using the yeast-two hybrid system, we identified transmembrane protein 126A (TMEM126A) as a binding partner for CD137L (4-1BB ligand). TMEM126A associated and co-localized with CD137L in a mouse macrophage cell line and knockdown of TMEM126A with siRNA abolished CD137L-induced tyrosine phosphorylation as well as up-regulation of M-CSF, IL-1 $\beta$  and IL-6 expression. Knockdown of TMEM126A also blocked down-regulation of IL-1 $\beta$  and IL-6 expression induced by CD137L in thioglycollate-elicited primary peritoneal macrophages. These findings identify a novel molecule that bridges TNF family cytokines and pro-inflammatory cytokine secretion in myeloid cells. Finally, our recent findings that TMEM126A is involved in TLR4 signals will be presented.

問い合わせ先: 口腔生理学教室 (内線2882)