

# グローバル COE 特別セミナー

## 代謝生理化学セミナー

(平成 23 年度)

講師： **中野 敦 博士**  
Atsushi Nakano, MD, PhD

Department of Molecular, Cell and Developmental Biology,  
Eli and Edythe Broad Center of Regenerative Medicine and Stem  
Cell Research, University of California, Los Angeles

演題：  
**Lineage diversification of cardiovascular progenitor cells**

要旨：  
The circulatory system is the first organ system that develops during the mammalian life. The heart tube serves as a pump that starts to beat even before the formation of effective circulatory loop, and the dorsal aortae serve as conduits that form independently from the heart tube and link to it soon after. These two organs are structurally and genetically similar and likely share the developmental program during their formation. Using genetically modified mouse and ES lines, we have previously demonstrated that primordial Flk1/Is1/Nkx2.5 cardiovascular precursor cells give rise to three cardiovascular cell types – cardiac, smooth muscle and endothelial cells. However, we are still at a primitive stage in understanding how the multi-lineage potential of the cardiovascular progenitors serves to the morphogenesis and function of the embryonic circulatory system. In this seminar, I will discuss the biological significance of the lineage diversification of the cardiovascular precursors.

日時： 2011 年 3 月 24 日 (木) 17:00~18:30

場所： 東京大学医学系研究科  
医学部教育研究棟 13F 第 5 セミナー室



\* 事前参加登録不要、参加費無料。皆様の御来聴をお待ち致しております。

世話人： 東京大学医学系研究科・代謝生理化学 栗原裕基 (内 23495)