第18回　東北大学脳科学グローバルCOE
若手フォーラム

日時　2009年10月9日（金）17時00分～18時00分

演者　平林　祐介博士
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演題　ポリコーム群タンパク質による大脳皮質神経系前駆細胞の分化運命制御
(Temporal regulation of cortical neural precursor cell fate by polycomb group proteins)

Abstract

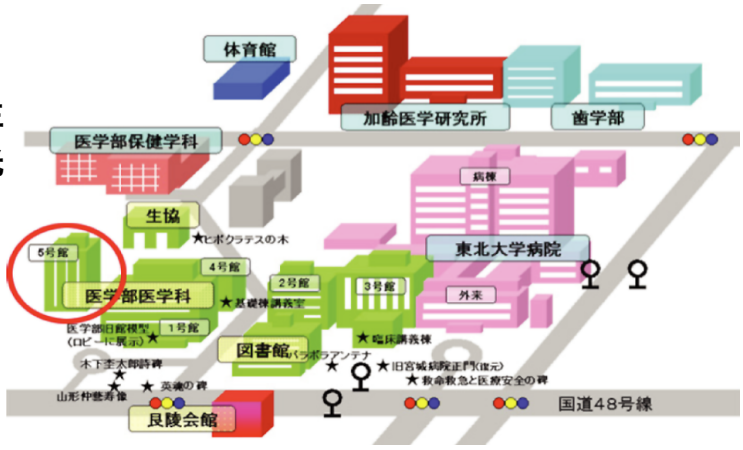
During neocortical development, neural precursor cells (NPCs, or neural stem cells) produce various types of neurons and glial cells in a sequential manner. Although the timing of the fate switch during this sequential process is critical for determining the number of each cell type, the mechanisms are not fully understood. Here we show that the polycomb group complex (PcG) restricts neurogenic competence of NPCs and promotes the transition of NPC fate from neurogenic to astrogenic. We further found that PcG is involved in switching the neuronal subtypes produced during the neurogenic phase. These results demonstrate a novel role of PcG.

Ref.

Hirabayashi, Y., Suzki, N., Tsuboi, M., Endo, T.A., Toyoda, T., Shinga, J., Koseki, H., Vidal, M. and Gotoh, Y.
Polycomb limits the neurogenic competence of neural precursor cells to promote astrogenic fate transition. **Neuron** 63, 600-613. (2009)

プレスリリース　2009年9月10日
毎日新聞等
ニューロン：たんぱく質操作で生後も生産　脊髄損傷など回復に光
東大チーム

場所　医学部5号館201号室



☆講演終了後、懇親会を兼ねて神経科学会報告会を開催します