第4回 千葉大学再生治療学研究センターセミナー

セミナーのお知らせ

日時: 平成 28 年 3 月 8 日(火) 17:00~18:00

場所:医学部本館2階大力ンファレンスルーム

Shaping up a cellular lineage: Lessons from normal and malignant B-lymphocyte development.

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The development of mature blood cells from multipotent stem cell is a complex process involving the coordinated activity of transcription factor networks and extracellular signals. We have explored the molecular regulation of B-lymphocyte development using transgenic mouse models. This has revealed that the process involve distinct phases, specification resulting in the activation of the B-lineage program and commitment to abolish alternative cell fates. Even though these processes are linked via auto-regulatory loops they can be functionally separated. The differentiation pathway is linked to malignant transformation thought the action of the transcription factors EBF1 and PAX5, acting in a dose dependent manner to prevent malignant transformation.

The seminar will focus on our recent findings revealing that disruption of transcription factor networks in B-cell leukemia allow for plasticity mediating a cross linage transfer of the leukemic state to generate T-lineage disease. Further, the seminar presents a protein association analysis revealing novel regulatory networks involving the targeting of broadly expressed DNA binding proteins to lineage restricted target genes by lineage specifying transcription factors.

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