



第 401 回 つくば分子生命科学セミナー

TSUKUBA MOLECULAR LIFE SCIENCE SEMINAR

演題 : **Transcription factor GATA3 controls T cell development.**

演者 : Tomo Hosoya, PhD

Research Assistant Professor

Cell and Developmental Biology

University of Michigan Medical School, U.S.A.

日時 : 2014年11月20日 (木) 17:00-18:00

会場 : 学系棟 4 階 483 室 (This seminar will be held in English)

要旨 : All lineages of hematopoietic cells are developed from hematopoietic stem cell found in bone marrow. While erythroid, myeloid and B lymphoid cells develop in the bone marrow, T lymphoid cell progenitors migrate into thymus and T cells develop in the thymus. The development of T cells is achieved by passing through multiple stages and selection steps. Transcription factor GATA3 is required for the T cell development at multiple stages. Roles of GATA3 from hematopoietic stem cells to immature thymocytes, and association of GATA3 with *T cell receptor beta* gene rearrangement, will be discussed.

Hosoya et al., GATA-3 is required for early T lineage progenitor development. *J Exp Med.* 2009 Dec 21;206(13):2987-3000.

Hosoya et al., From the cradle to the grave: activities of GATA-3 throughout T-cell development and differentiation. *Immunol Rev.* 2010 Nov;238(1):110-25.

Ku et al. GATA-3 regulates hematopoietic stem cell maintenance and cell-cycle entry. *Blood.* 2012 Mar 8;119(10):2242-51.

連絡先 : 筑波大学医学医療系 高橋 智 (内線 6963、e-mail: satoruta@md.tsukuba.ac.jp)

* TSMM セミナーは、フロンティア医科学専攻 (修士)「医科学セミナーII」(担当: 久武 幸司)、生命システム医学専攻 & 疾患制御医学専攻 (博士)「最先端医学研究セミナー」(担当: 熊谷 嘉人、武川 寛樹) 及び「医学セミナー」(担当: 専攻各教員) の関連セミナーに相当します。

【筑波分子医学協会 (TSMM) 主催】 HP <http://www.md.tsukuba.ac.jp/public/tsmm/>