



第 回 トランスボーダー医学研究センターセミナー Transborder Medical Research Center Seminar

演題：ホジキンリンパ腫の腫瘍微小環境 ～The Hodgkin Lymphoma Tumor Microenvironment at single cell resolution～

演者：Christian Steidl

Research Director, Centre for Lymphoid Cancer, BC Cancer;
Professor, Department of Pathology and Laboratory Medicine,
University of British Columbia, Canada

日時：2026 年 10 月 20 日（火）15：00～16：00

会場：イノベーション棟 8階 講堂

要旨：Dr. Steidl is a physician-scientist whose research program integrates cancer genomics with the immune biology of the lymphoma tumor microenvironment (TME), with a long-standing focus on classic Hodgkin lymphoma (cHL). His group combines malignant cell genotyping, single-cell transcriptomics and spatial imaging to dissect the crosstalk between Hodgkin and Reed-Sternberg (HRS) cells and their immune ecosystem. This work uncovered distinctive LAG3- and CTLA4-expressing regulatory T-cell populations and showed that immune cell organization around HRS cells depends on tumor-intrinsic features such as MHC class II expression. Integrative analysis of 114 cHL tissues defined four molecular subclasses (CST, CN913, STB and CN2P) with distinct clinical, genetic and microenvironmental features, assignable by the HLGen classifier from HRS-enriched tissue or ctDNA (Aoki et al. Cancer Discovery 2026). Functional studies further linked *CSF2RB* mutations to JAK2-STAT5 hyperactivation, TARC/IL13 production and recruitment of CCR4+ regulatory T cells, indicating that tumor genetics actively shape an immunosuppressive niche. Toward clinical application, his group developed RHL4S, a spatial prognostic model for relapsed cHL, and showed that early relapse is marked by naïve B cells and exhausted T cells near HRS cells. In this seminar, Dr. Steidl will present this multimodal framework linking tumor genetics, immune composition and spatial organization for prognostication and subtype-specific therapy.

【主催】トランスボーダー医学研究センター（TMRC）<http://www.md.tsukuba.ac.jp/tmrc/>

【共催】関東次世代のがん専門医療人養成プラン（筑波大学がんプロ事務局）

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