



The University of Tokyo Hospital

第 3 回

東京大学医学部附属病院・22世紀医療センター 産学連携メディカルフロンティアセミナー

日時：平成 21 年 12 月 7 日(月) 17:00~18:00

場所：東大病院中央診療棟 I I 7 階大会議室

演題：ELISPOT assays for delineation of T cell effector classes and activation states

演者：Paul V. Lehmann, M.D., Ph.D.

Professor of Pathology at Case Western Reserve University,
Fonder, President and CEO of CTL, Cleveland, OH

During this talk I will cover our studies utilizing IL-2, -4, -5, -10, -17, granzyme B, perforin, TRAIL and IFN- γ ELISPOT assays for defining the effector lineage of antigen-specific CD4 and CD8 cells. I will first cover the differential induction of Th17 vs. Th1 CD4 and CD8 cells in vivo, in mice. In HIV infected humans, we found considerable heterogeneity within the HIV-specific CD8 cell pool by studying their granzyme B, perforin and IFN- γ signature. TRAIL ELISPOT assays proved to be suitable to identify “unhelped/ frustrated/ lethargic” CD8 cells in HIV infection. The data draw attention to multicolor ELISPOT analysis which permits to combine the strengths of the classical approach (ultra high sensitivity, robustness, need for minimal cell material, suitability for high throughput and regulated tests) with the need for multiplexing.

主催：東京大学医学部附属病 22 世紀医療センター

協賛：エムエステクノシステムズ

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