Regulatory T cells are central mediators of immune regulation and play an essential role in the maintenance of immune homeostasis in the steady state and under pathophysiological conditions. Disruption of CD8 Treg-dependent recognition of Qa-1-restricted self-antigens can result in dysregulated immune responses, tissue damage, autoimmune disease and cancer. Recent progress in studies on regulatory T cells of the CD8 lineage have provided new biological insight into this specialized regulatory T cell subpopulation. Identification of the Helios transcription factor as an essential control element for the differentiation and function of CD8 regulatory T cells has led to a better understanding of the unique genetic program of these cells. Here, recent advances in our understanding of CD8 regulatory T cells with emphasis on lineage commitment, differentiation and stability will be introduced. In addition, we will also discuss that selective instability and conversion of intratumoral Treg may represent a novel and effective approach to cancer immunotherapy.

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Treg stability & contribution to anti-tumour immunity

Seminar is open for all to attend.
Registration is not required.