

November 25, 2024 (Mon) 11:00-12:00

Venue: CCII Bristol Myers Squibb Bldg. (Bldg. No.2)
Meeting Room (2F)



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“Tertiary Lymphoid Structures and Its Implication for Age-Related Disease Progression ”

Prevalence of age-related chronic disease increases alongside global population aging. One prominent feature across age-related diseases is chronic inflammation. However, the underlying central mechanism remains elusive. Tertiary lymphoid structures (TLS), inducible ectopic microenvironments that support lymphocyte activation and differentiation, recently received particular attention due to their clinical impact. Our previous studies clarified the pathogenic role of TLS in two aged-related diseases. Aged kidneys develop TLS after injury, where two unique age-dependent lymphocytes interact to exacerbate proinflammatory cytokine production. In giant cell arteritis, an age-related autoimmune disease, TLS develop at the inflammatory lesion and function as a niche for TCF1hi CD4+ T cells that self-replenish and transdifferentiate into effector subpopulations such as cytotoxic and Tfh-like CD4+ T cells. These stem-like T cells establish an autonomous reservoir to sustain tissue inflammation. In this seminar, I will share our previous research and discuss potential therapeutic approaches to age-related disease from a TLS and immune aging perspective.



Admission free.
No advance registration required.
Mark your calendar and join us!

Organized by
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