

SiGN VIRTUAL SEMINAR



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Two tales of B cell lymphopoiesis: From post-transcriptional regulation to identify a novel niche at the CNS borders

Humoral immunity is one of the two major arms of the adaptive immune system. The hallmark of B cell maturation is the expression of a rearranged antigen receptor, which is accomplished by a series of DNA recombination and DNA repair. Dysregulation of B cell development not only impairs the humoral immune response but also likely leads to B cell malignancy.

In this talk, I will present my efforts toward a better understanding of B cell lymphopoiesis at bone marrow and the novel niches that we identified recently, the CNS borders. The first section will focus on the finding of microRNA-142 (miR-142), a hematopoietic-specific microRNA that post-transcriptionally regulates B cell development and function.

Stemmed from an unexpected observation of a heterogenous B cell population in the CNS, we hypothesized that B cells can achieve a series of maturation steps in the meninges. The second part of my talk will elaborate on the identification of the CNS borders as novel niches for B cell lymphopoiesis.



15th December 2021 (Wednesday)
11 AM – 12 PM (Singapore Time)

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open for all
to attend.*

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