

SigN VIRTUAL SEMINAR



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Epigenetic Modifier Dysfunction in Hematopoietic Cells and Its Impact on Immune Gene Expression

Clonal expansion of hematopoietic cells carrying acquired mutations in epigenetic modifiers, such as DNMT3A and TET2, is common in older adults. This phenomenon, referred to as age-related clonal hematopoiesis (ARCH), is associated with increased risks of blood cancers and cardiovascular disease. Epigenetic mechanisms underlying these disease associations are poorly understood. Using human pluripotent stem cell-derived macrophages, we investigate the impact of ARCH-associated mutations on DNA methylation and immune gene expression. Our results reveal a broad impact of epigenetic modifier dysfunction on immune gene expression and shed light on the mechanism of immune dysfunction associated with aging.



16th Nov 2021 (Tuesday)
9 AM – 10 AM (Singapore Time)

Join Zoom: [LINK](#) or Scan QR Code
Meeting ID: 943 3308 6614
Passcode: 459004



*Seminar is
open for all
to attend.*

*Registration
not
required.*

