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THE ROLE OF LYVE-1+ MACROPHAGES IN ATHEROSCLEROSIS

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Abstract

Tissue resident macrophages can exert beyond their established immune functions additional activities to support tissue homeostasis and function. Although tissue resident macrophages were identified in healthy arteries whether they have a homeostatic function in this tissue remains an open question. Recently, we unveiled a hitherto unknown homeostatic contribution of arterial LYVE-1 expressing macrophages through the control of collagen production by smooth muscle cells utilizing a mouse model lacking specifically LYVE-1⁺ macrophages. In my talk, I would share new findings supporting the contribution of these resident arterial macrophages in the arteria remodelling associated with human and experimental atherosclerosis.

Keywords

Macrophage, atherosclerosis, extracellular matrix