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Title: MiR-128-3p directly targets VEGFC/VEGFR3 to modulate the proliferation of lymphatic endothelial cells through Ca^{2+} signaling

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MiR-128-3p directly targets VEGFC/VEGFR3 to modulate the proliferation of

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Highlights

- VEGFC/VEGFR3 affects LECs proliferation and Ca²⁺ release.
- VEGFC and VEGFR3 are direct downstream targets of miR-128.
- MiR-128 modulates LEC proliferation and Ca²⁺ release in LECs.

Abstract

Lymphangiogenesis has been regarded as a physiological response to pathologic stimuli. The abnormal proliferation of lymphatic endothelial cell (LECs) and lymphangiogenesis is involved in the development of lymphatic disorders. Reportedly, VEGFC/VEGFR3 plays a key role in lymphangiogenesis; moreover, VEGFC/VEGFR3 exerts their cellular effects through activation of Ca²⁺ signaling in several cell types. Herein, we demonstrated that VEGFC significantly up-regulated LEC proliferation through VEGFR3; moreover, VEGFC/VEGFR3 induced Ca²⁺ Download English Version:

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