

JCK Poster

JCK Poster 1 (II-JCKP1)

Basics/New Insights/Others

Chair: Tran Cong Bao Phung (Cardiology Department, Children Hospital 1, Ho Chi Minh City, VietNam)

Sat. Jul 8, 2017 6:15 PM - 7:15 PM Poster Presentation Area (Exhibition and Event Hall)

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[II-JCKP1-06] TGF- β /Smad3 signaling promotes collagen synthesis in PASMOC through down-regulating miR-29b

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miR-29 is reported to be associated with fibrosis diseases in which collagen synthesis plays an important role and participates in the development of liver fibrosis, renal fibrosis, pulmonary fibrosis, cardiac fibrosis. Deposition of extracellular matrix (ECM), such as fibronectin and collagen, and proliferation, migration, and hypertrophy of vascular smooth muscle cells (VSMCs) result in PA hypertrophy and muscularization, leading to increased pulmonary vascular resistance in PAH. With the possible links among HPH, collagen, in this study we examined the role and therapeutic potential of miR-29 in rats model of pulmonary hypertension induced by MCT. In conclusion, miR-29b plays an important role in collagen synthesis and may be a therapeutic agent for PAH under the regulating of the TGF- β /Smad3 pathway.