TGF-β1 Mediates HASM Cell Hyporesponsiveness to β2-Agonist-Induced Relaxation

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ABSTRACT

TGF-β1 in HASM Cell Contractile Responses in Asthma

- The mechanisms governing HASM cell contractile responses in asthma are incompletely understood.
- TGF-β1 - a pro-fibrotic cytokine implicated in asthma - induces HASM cell shortening and airway hyporesponsiveness.
- TGF-β1 modulation of HASM cell relaxation pathways may contribute to β2AR hyporesponsiveness and increased HASM cell shortening.

HYPOTHESIS

TGF-β1 signaling modulates HASM cell relaxation pathways to induce β2-agonist hyporesponsiveness in asthma.

REFERENCES