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Molecular mechanisms underlying TGF- β /Hippo signaling crosstalks – Role of baso-apical epithelial cell polarity

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ABSTRACT

The ubiquitous distribution of both Hippo and TGF- β signaling cascade components and their critical implication in tissue homeostasis and disease has led to the discovery of a remarkable slew of interesting and unique features regarding their functional crosstalks. Upstream cellular cues regulating the Hippo pathway, including cell-cell contacts and apico-basal cell polarity have been well characterized. Herein, we provide an overview of the published models of compartmentalized signaling crosstalk mechanisms between Hippo signaling and the TGF- β /SMAD pathway. How cell polarity impacts the interaction between the two pathways is discussed, together with the specifics of cytoplasmic and nuclear events implicating SMADs and YAP/TAZ, leading to contextual regulation of target gene expression.

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