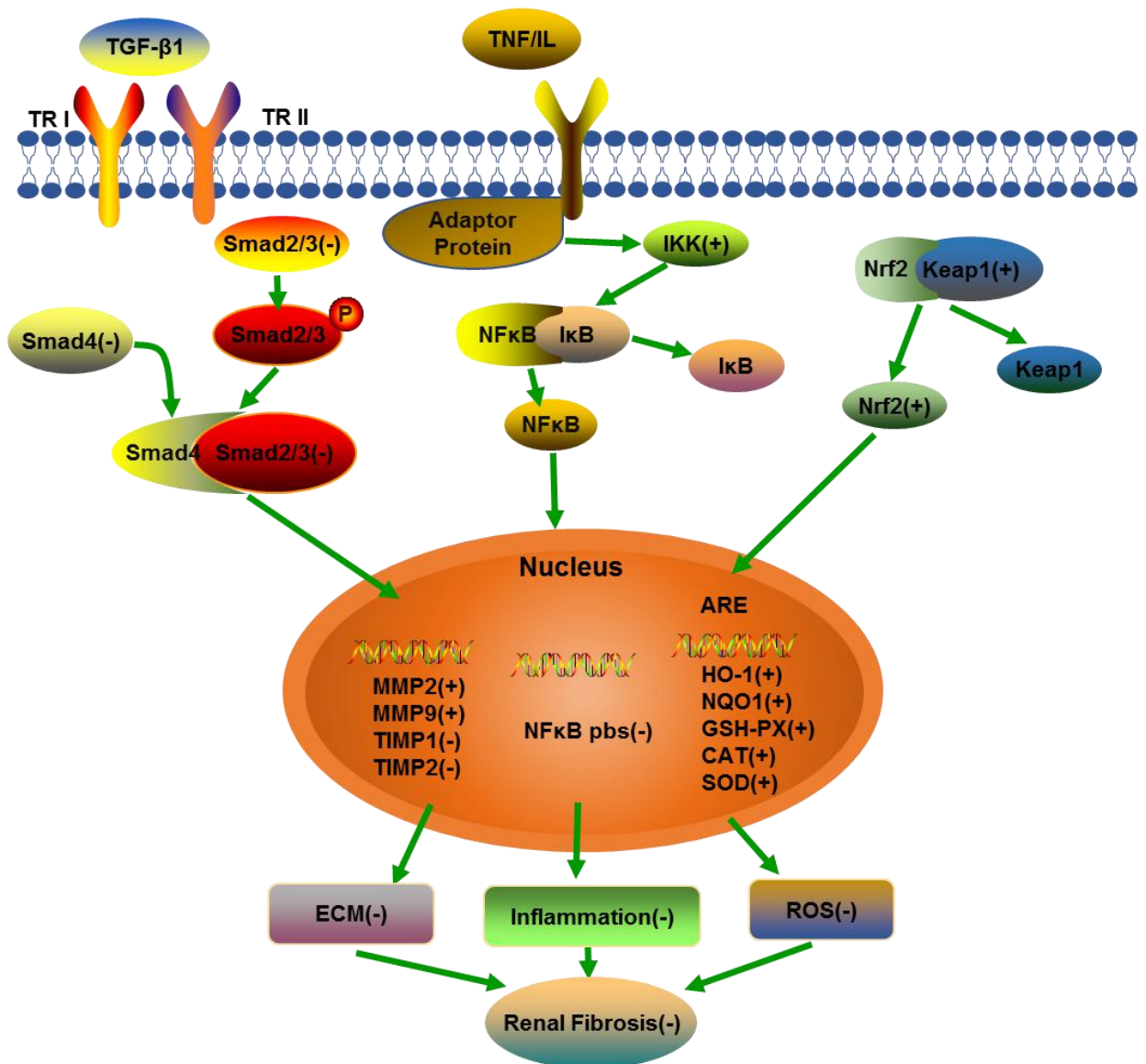


Supplementary figure

TGF- β 1 signaling Pathway

NF- κ B signaling Pathway

Nrf2/ARE signaling Pathway



Schematic illustration for summary of the regulatory effects of SPJs on TGF- β 1/Smad signaling, NF κ B signaling and Nrf2-ARE signaling pathway. (+): positive effect, (-): negative effect.