TGF-β signaling dynamics in epithelial-mesenchymal plasticity of cancer cells

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Stellingen

behorende bij het proefschrift

TGF-β signaling dynamics in epithelial-mesenchymal plasticity of cancer cells

1. Specific lncRNAs play an important effector role in TGF-β-induced biological responses and also fine-tune their strength and duration. (This thesis)

2. *LITATS1* serves as a scaffold to facilitate the TβRI–SMURF2 interaction. (This thesis)

3. *LETS1* potentiates TGF-β/SMAD signaling by stabilizing cell surface TβRI levels, thereby forming a positive feedback loop. (This thesis)

4. OVOL1 agonists can be explored to enable the therapeutic gain for breast cancer patients. (This thesis)

5. Continued focus on elucidating the operating logic of the TGF-β system will lead to effective strategies to precisely target its pathologic roles while preserving its many critical homeostatic functions. (Joan et al, 2023, Cell)

6. TGF-β receptors are under the control of complicated yet delicate feedback regulatory circuits. (Xiaohua et al, 2018, Acta Biochim Biophys Sin)

7. LncRNAs exert multiple key molecular functions in cancer, converging towards the regulation of epigenetic and post-transcriptional events. (Sara et al, 2022, Trends Cancer)

8. EMT determines the most lethal features of cancer, metastasis formation and chemoresistance, and therefore represents an attractive target in oncology. (Vignesh et al, Trends Cancer)

9. It does not matter how slowly you go as long as you do not stop. (Inspired by Confucius)

10. A person who never made a mistake never tried anything new. (Inspired by Albert Einstein)