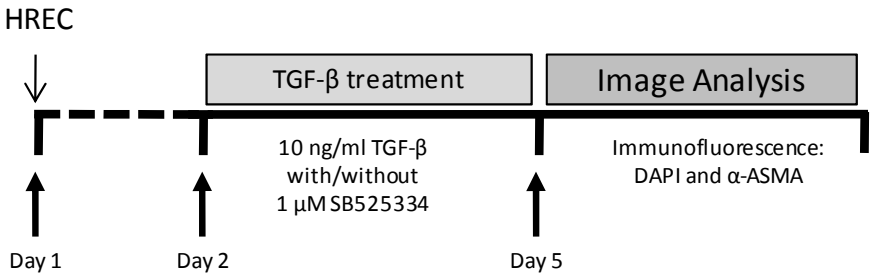
FIBROSIS RESEARCH

RENAL FIBROSIS *IN VITRO* MODEL

TGF-β-induced fibrosis on Human Renal Tubular Epithelial Cells

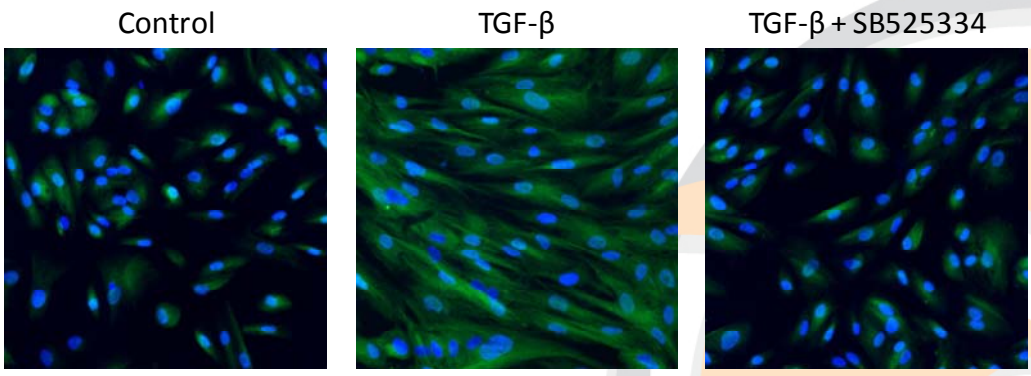
Our model

Human Renal Tubular Epithelial Cells are plated in MW96 plates and maintained in culture during 18 hours. After this initial culture, the medium is replaced and the cells are incubated with the compounds in presence or absence of 10ng/ml TGF-β for 72 hours. After the treatments, an immunofluorescence for DAPI and alpha-Smooth Muscle Actin (ASMA) is performed. Using a specific TGF-β type I receptor (Alk5) inhibitor, known as SB525334 (CAS Number 356559-20-1), the expression of ASMA is disrupted.



Readout

- **ASMA expression:**



The images are acquired with the CellInsight CX7 Platform (ThermoFisher)

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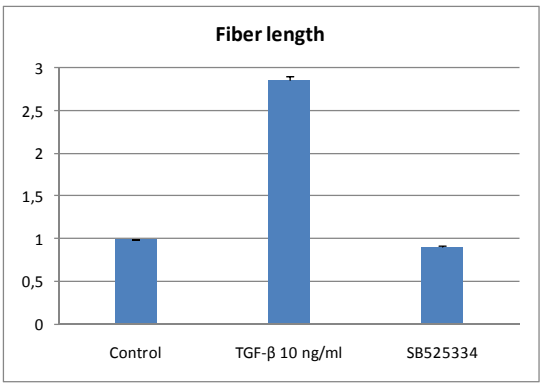
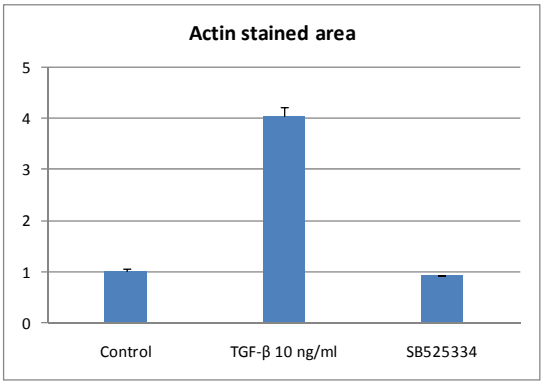
- **Image Analysis:**





The images are analyzed using the Cellomics Scan Software (version 6.6.1).

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