

MicroRNAs Associated with Chronic Mucus Hypersecretion in COPD Are Involved in Fibroblast–Epithelium Crosstalk

Hataitip Tasena ^{1,2,3,4}, Wim Timens ^{1,2}, Maarten van den Berge ^{2,5}, Joy van Broekhuizen ^{1,2}, Brian K. Kennedy ^{3,4,6,7}, Machteld N. Hylkema ^{1,2,†}, Corry-Anke Brandsma ^{1,2,†} and Irene H. Heijink ^{1,2,5,*}

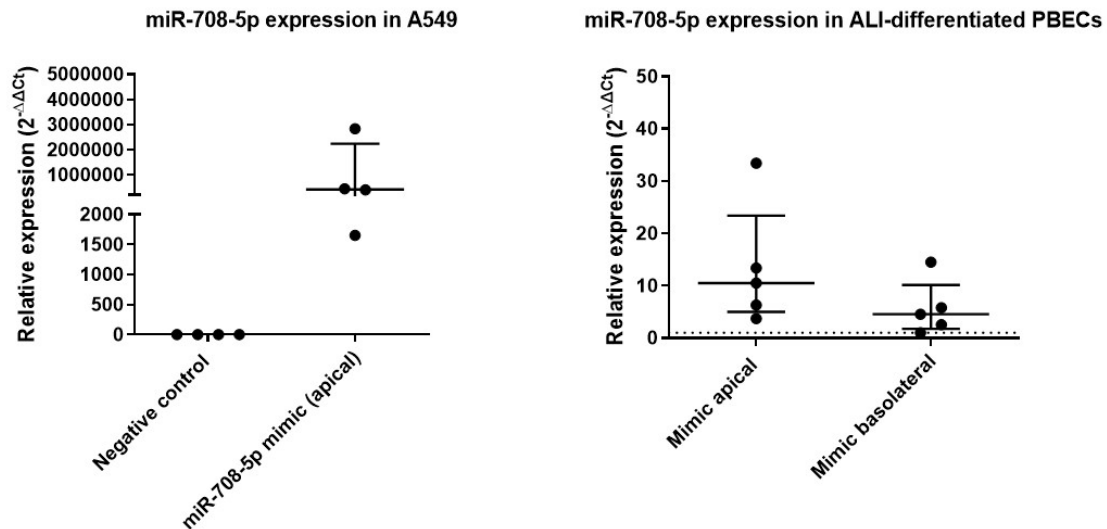


Figure S1. miR-708-5p expression upon transfection with miR-708-5p mimic in A549 and air-liquid interface (ALI)-cultured primary bronchial epithelial cells (PBECs). A549 cells or PBECs cultured at ALI for 14 days were transfected with miR-708-5p mimic either from the apical (1 nM) or the basolateral (3 nM) side. The expression of miR-708 was normalized to RNU48 and related to the negative control ($2^{-\Delta\Delta C_t}$). Four-five experiments were performed independently.

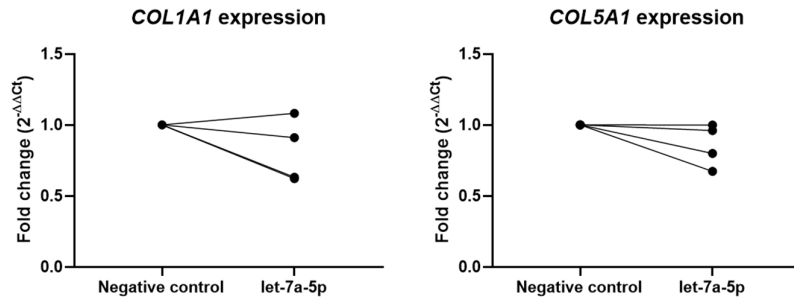


Figure S2. Effect of let-7a-5p overexpression on *COL1A1* and *COL5A1* expression in normal human lung fibroblasts (NHLFs). NHLFs were seeded in 24-well plates and transfected with let-7a-5p mimic or negative control siRNA (5 nM) were transfected in upon. RNA samples were collected 24 hours after the medium refreshment. The expression if *COL1A1* and *COL5A1* was normalized to *GAPDH*. Four experiments were performed independently.