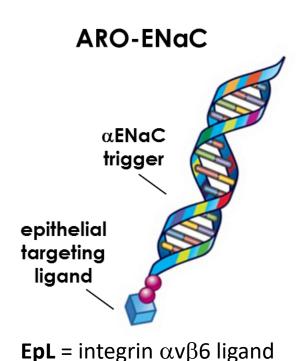
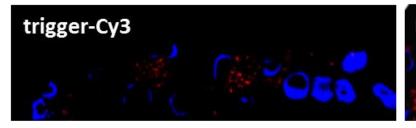
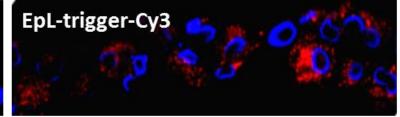
EpL- α ENaC RNAi trigger conjugates are internalized by HBE cells in vitro, silencing ENaC mRNA expression, reducing amiloridesensitive current and increasing airway surface liquid

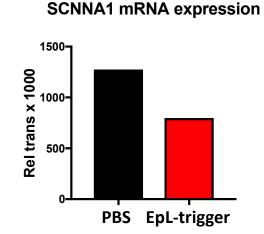


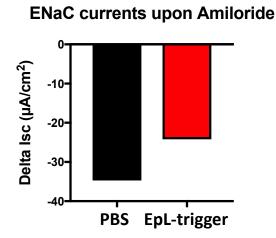
Silencing αENaC mRNA expression in lung is expected to improve airway hydration and increase mucociliary clearance

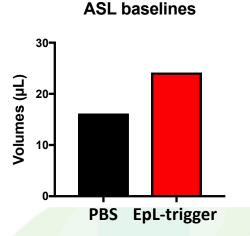
Fully differentiated HBE cells in ALI culture









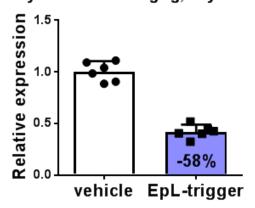


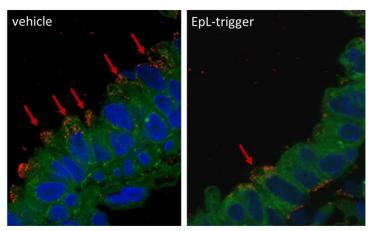
Courtesy Matthias Salathe



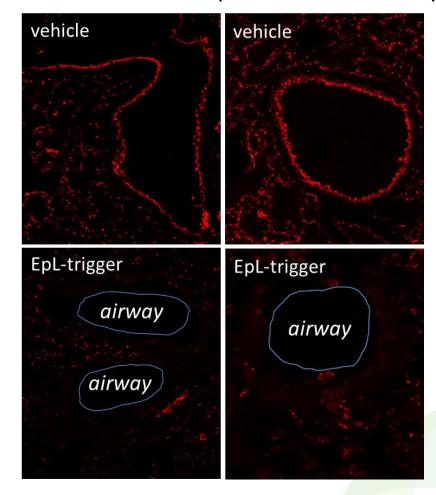
EpL- α ENaC RNAi trigger conjugates silence lung α ENaC mRNA expression and eliminate airway protein expression after IT dose

Rat whole right lung αENaC expression EpL-trigger(v2) conjugate Day 1: IT dose 1.5 mg/kg; Day 9 sacrifice





Immunohistochemistry with α ENaC antibody

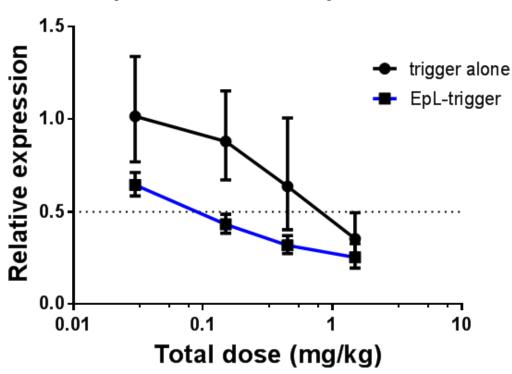




EpL trigger delivery platform increases potency and uniformity of target mRNA silencing in the lung, producing durable reduction in α ENaC mRNA expression

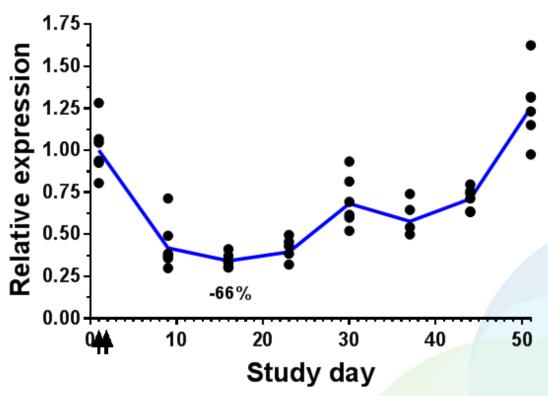
Rat whole lung αENaC expression

EpL-trigger(v3) conjugate
Day 1, 2, 3: OP dose; Day 9 sacrifice



Rat whole lung aENaC expression

Day 1, 2: OP dose 0.5 mg/kg EpL-trigger(v3)

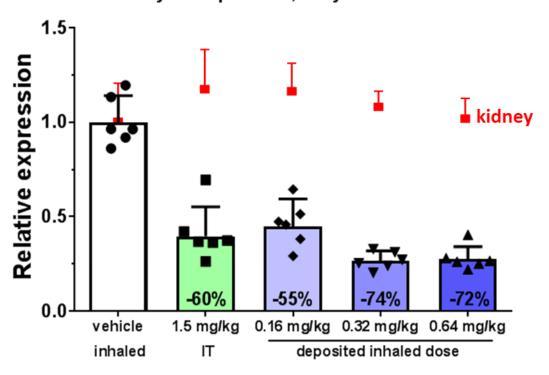


Durable mRNA silencing supports every other week (or less frequent) dose regimens



Aerosol inhalation improves delivery efficiency of EpL- α ENaC RNAi trigger conjugates

Rat whole lung αENaC expression EpL-trigger(v2) conjugate; nose-only inhaled aerosol Day 1 exposure; Day 9 sacrifice



- Inhaled EpL- α ENaC RNAi trigger conjugates produce durable silencing in the lung with no changes in renal α ENaC mRNA expression or serum potassium levels
- ARO-ENaC for cystic fibrosis is Arrowhead's first therapeutic candidate to employ the pulmonary epithelial delivery platform
- The platform may be adapted to additional therapeutic targets in the pulmonary epithelium, particularly those that are currently inaccessible to traditional small molecule or antibody approaches

