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The role of E-cadherin/β-catenin signalling in the development of an asthmatic airway epithelial phenotype

- 1. Loss of E-cadherin from adherens junctions and subsequent activation of β -catenin/CBP signalling induces similar changes as observed in asthmatic airway epithelial cells. *This Thesis*
- 2. Disruption of β-catenin/CBP signalling by ICG-001 improves epithelial barrier function, promotes its repair upon damage, and reduces house dust mite-induced proinflammatory responses in airway epithelial cells. *This Thesis*
- 3. Conditional knockout of E-cadherin in mice is sufficient to induce an airway inflammatory response but does not lead to aggravated immune responses upon chronic house dust mite treatment. *This Thesis*
- 4. Airway epithelial cells from asthmatic donors display prolonged β -catenin activity and delayed differentiation compared to those from non-asthmatic donors. *This Thesis*
- 5. β-catenin/CBP and Notch signalling independently promote goblet cell differentiation in airway epithelial cells by decreasing *FOXA2* expression and increasing *SPDEF* expression, respectively. *This Thesis*
- 6. Inhibition of β-catenin/CBP signalling using ICG-001 attenuates HDM-induced goblet cell metaplasia in mice. *This Thesis*
- 7. "The greatest enemy of knowledge is not ignorance; it is the illusion of knowledge" Stephen Hawking.
- 8. "Success is a lousy teacher. It seduces smart people into thinking they can't lose" Bill Gates.
- 9. The ultimate unchanging metaphysical reality is identical to an individual's true self. The ever-changing physical world is an illusion Advaita Vedantam, c. 500 BCE.

Virinchi Naga Sarma Kuchibhotla Groningen, 28th June 2021