

CARNEGIE MELLON UNIVERSITY BME 2022 FALL SEMINAR SERIES

Can the human lung regenerate? Novel approaches for endogenous repair



PRESENTED BY

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SCHEDULE

Porter Hall (PH) 100

**Thursday,
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(10:15AM-11:15AM)**

Chronic lung disease, such as chronic obstructive pulmonary disease (COPD), are diseases of aging and impaired regeneration. While once thought to be a quiescent organ, research findings over the last decades have revealed a remarkable regenerative capacity of the lung. Thus, emerging regenerative medicine approaches hold therapeutic promise to be able to reverse disease. Within this presentation the basic concepts of (impaired) lung regeneration will be summarized and the current knowledge on (impaired) lung stem cell function and regenerative signaling pathways involved in chronic lung disease will be discussed. The presentation will outline how novel methodologies advance the field as well as specific mechanisms, such as cellular senescence, contribute to chronic lung disease and impact endogenous lung regeneration.

