

# Aging Lung

- ↓ Lung size
- ↓ Lung volume
- ↓ Muscle mass
- ↑ Pulmonary fibrosis
- Altered intracellular communications
  - Mitochondrial Dysfunction
  - Deregulated nutrient sensing
  - Loss of proteostasis (↑ misfolded, aggregated, & covalently modified proteins)
- Extracellular matrix dysregulation
  - Epigenetic alterations
  - Telomere attrition
- Stem cell exhaustion
  - Genomic instability
  - Cellular senescence

## Trachea, Bronchi, Bronchioles

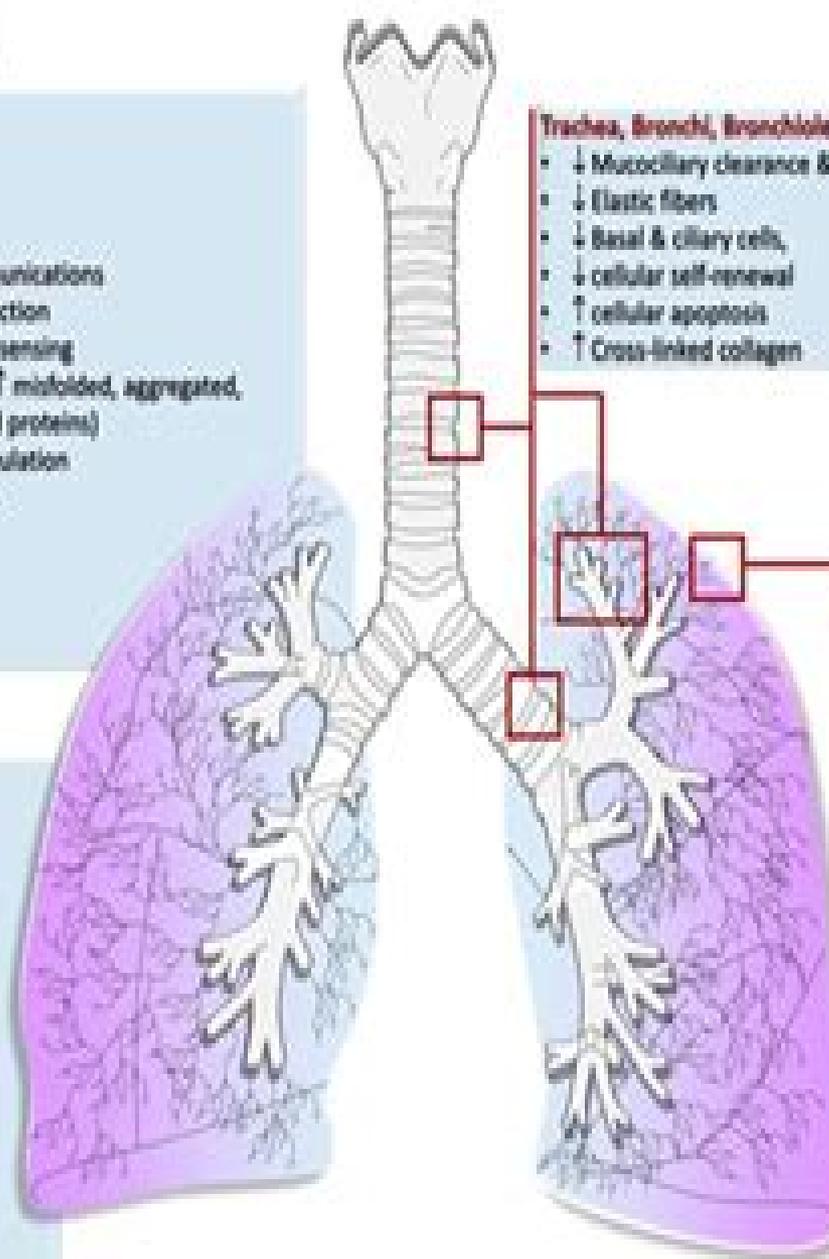
- ↓ Mucociliary clearance & ciliary beat
- ↓ Elastic fibers
- ↓ Basal & ciliary cells,
- ↓ cellular self-renewal
- ↑ cellular apoptosis
- ↑ Cross-linked collagen

## Alveolar Space

- Enlarged alveolar ducts and alveoli
- ↓ Alveolar septa
- ↓ Elasticity
- ↓ AT-I cell numbers (impaired differentiation of AT-I into AT-II)
- ↓ Cellular mitophagy
- Altered AM cell subpopulations, phagocytosis, PRR & other innate immune protein expression & function, cytokine secretion
- Changes in extracellular matrix
- ↑ AT-II cell senescence (e.g. ↑ endoplasmic reticulum stress, ↑ MHC-I, altered lipid metabolism with ↑ sterol synthesis, enlarged mitochondria with cristae loss & swelling)
- ↑ Apoptosis & makers of senescence
- ↑ Soluble & cellular inflammation
- ↑ Environmental & cellular oxidative stress. (e.g. ↑ NADPH oxidase, ↑ ROS)
- ↑ Fibroblast/Fibrosis

## Immunity

- ↓ Immune surveillance
- Dysfunctional NK cells with ↓ anti-microbial responses & cytotoxicity
- ↑ Dysfunctional AMs
- ↓ T & B cell development
- ↓ DC Ag-presentation & ↓ migration
- ↓ T cell priming, ↓ proliferation & function, ↓ cytotoxicity, ↓ CD28 expression, restricted Ag-receptor repertoire
- ↓ Neutrophils phagocytosis, ROS production, NET formation & apoptosis
- Dysregulated neutrophil infiltration related to ↑ tissue destruction
- ↓ B cell numbers, activation & Ab responses
- ↑ Basal inflammatory mediator levels
- ↑ Dysfunctional CD8+ T<sub>reg</sub> cells



# The Aging Lung Normal Function

**Richard Bucala, Patty J Lee**



## **The Aging Lung Normal Function:**

*The Aging Lung: Normal Function* John R. Edge, K. K. Pump, Javier Arias-Stella, 1974      **Aging Lungs, The: Mechanisms And Clinical Sequelae** Richard Bucala, Patty J Lee, 2015-12-08 This volume provides a comprehensive and multi disciplinary overview of the aging lung written by the main researchers in the field Current physiological cellular and molecular understanding of how the lungs age and the relationship to age associated lung diseases will be presented The contents are aimed at a broad audience of scientists and clinicians with an interest in the respiratory system pathogenesis of age associated lung diseases and clinical implications      **The Aging Lungs** Richard Bucala, Patty J. Lee, 2015-12-08 This volume provides a comprehensive and multi disciplinary overview of the aging lung written by the main researchers in the field Current physiological cellular and molecular understanding of how the lungs age and the relationship to age associated lung diseases will be presented The contents are aimed at a broad audience of scientists and clinicians with an interest in the respiratory system pathogenesis of age associated lung diseases and clinical implications      [Pulmonary Disease in the Aging Patient, An Issue of Clinics in Geriatric Medicine](#) Sidney S. Braman, Gwen S. Skloot, 2017-10-14 This issue of Clinics in Geriatric Medicine guest edited by Drs Sidney S Braman and Gwen S Skloot is devoted to Pulmonary Disease in the Aging Patient Articles in this issue include The Effects of Aging on Lung Structure and Function Immunosenescence and the Lungs Epidemiology of Lung Disease in the Elderly The Evaluation of Dyspnea in the Elderly Asthma in the Elderly COPD in the Elderly Patient Pulmonary Vascular Diseases in the Elderly Granulomatous Lung Diseases in the Elderly Lung Cancer in the Older Patient Sleep Disorders in the Elderly Idiopathic Pulmonary Fibrosis in the Older Patient and Co morbidities of Lung Disease in the Elderly      **Exercise Physiology for Health, Fitness, and Performance** Sharon Plowman, Denise Smith, 2007-06-01 This textbook integrates basic exercise physiology with research studies to stimulate learning allowing readers to apply principles in the widest variety of exercise and sport science careers It combines basic exercise physiology with special applications and contains flexible organisation of independent units      **Working with Older People: Clinical aspects of aging, ed. by A. B. Chinn** Gerontological Society, 1966      **The aging lung** John R. Edge, 1974      **Gerontology** Mabel Leigh Rooke, C. Ray Wingrove, 1977      [Fishman's Pulmonary Diseases and Disorders, 2-Volume Set, Sixth Edition](#) Michael A. Grippi, Danielle E. Antin-Ozerkis, Charles S. Dela Cruz, Robert Kotloff, Camille N. Kotton, Allan I. Pack, 2022-10-22 The definitive guide to the clinical and scientific aspects of pulmonary medicine fully updated with the latest advances in the field A Doody's Core Title for 2024 2023 Fishman's Pulmonary Diseases and Disorders delivers unparalleled coverage of pulmonary medicine With nearly 2500 illustrations 60 videos and 22 000 references this peerless two volume resource provides a comprehensive overview of the scientific basis of lung function in health and disease You'll find detailed coverage of the broad array of disorders affecting the respiratory system including obstructive and restrictive diseases pulmonary vascular disorders sleep disordered breathing lung neoplasms respiratory infections and respiratory failure In

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