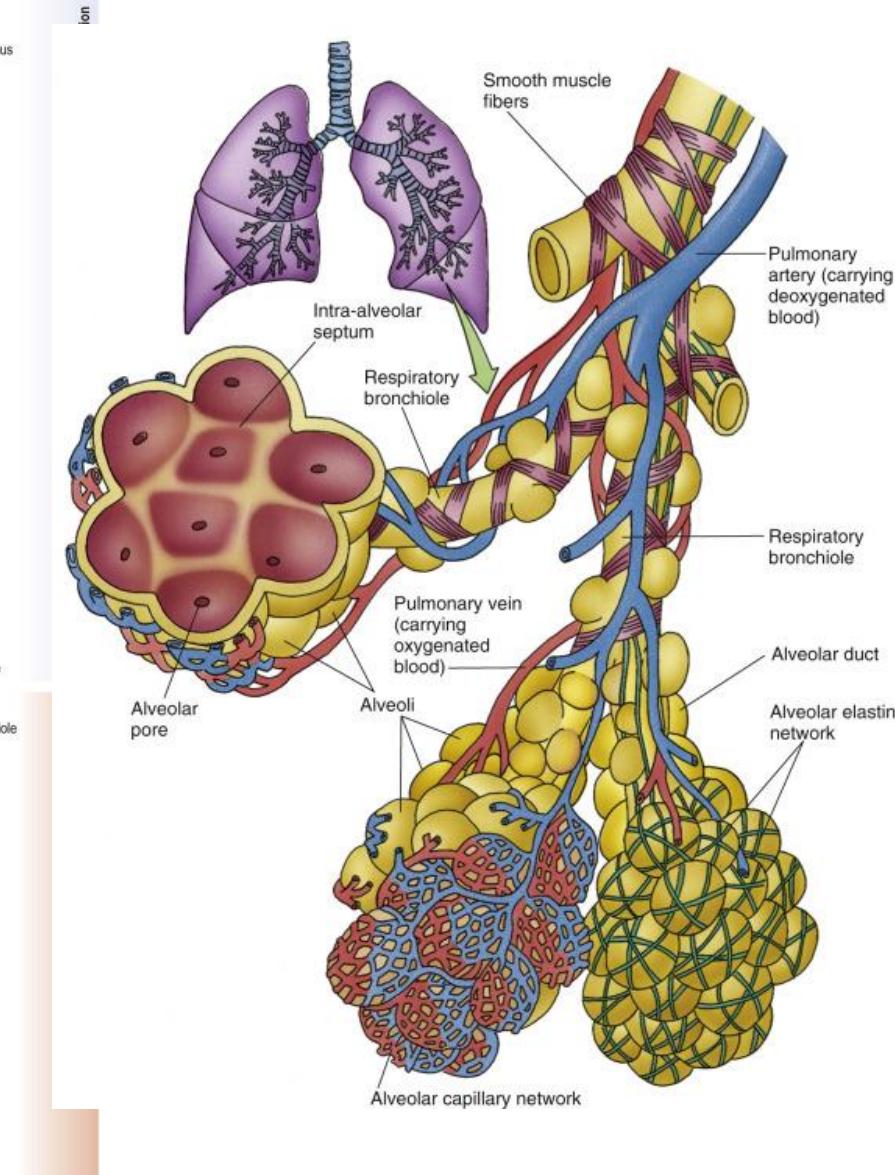
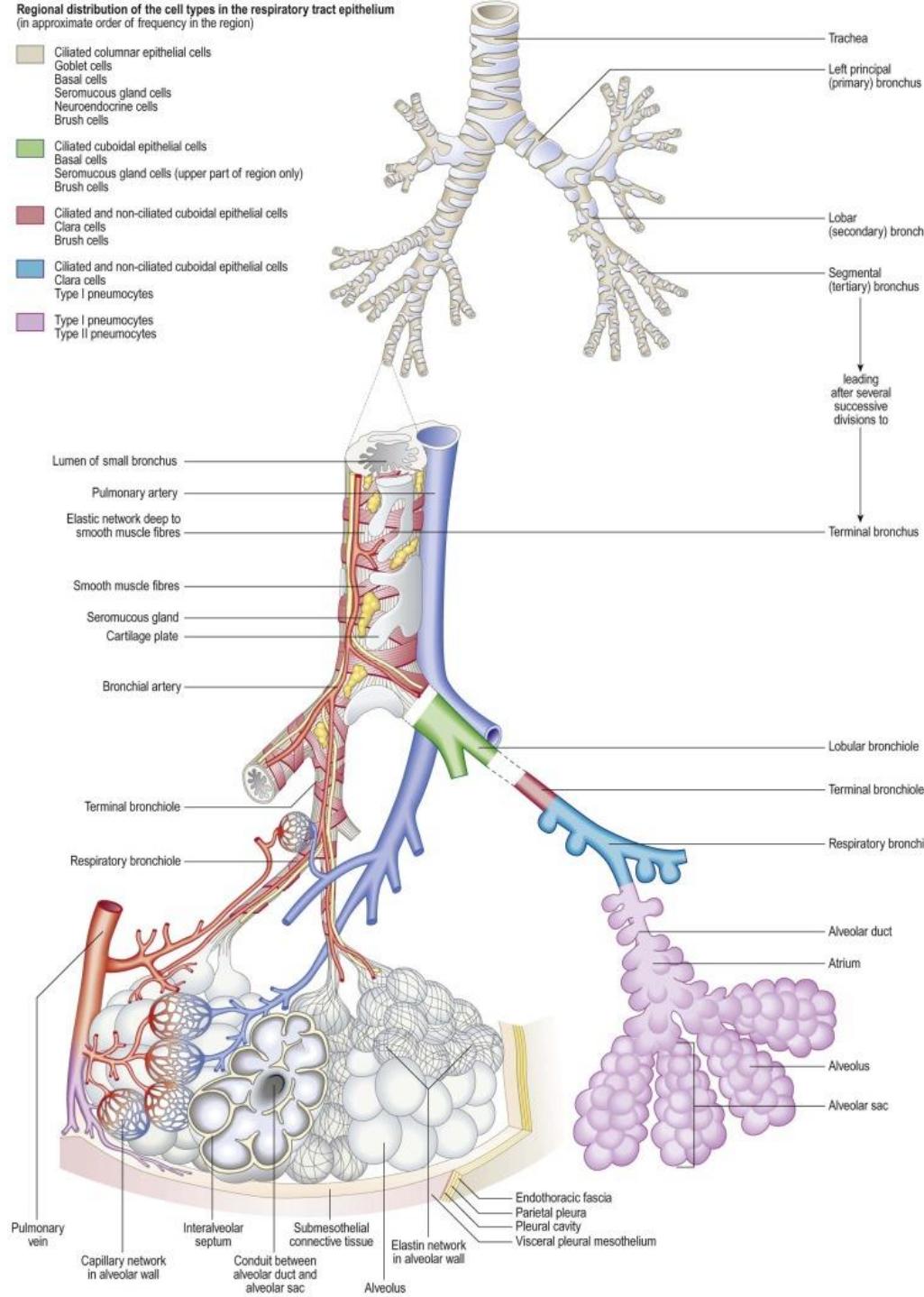
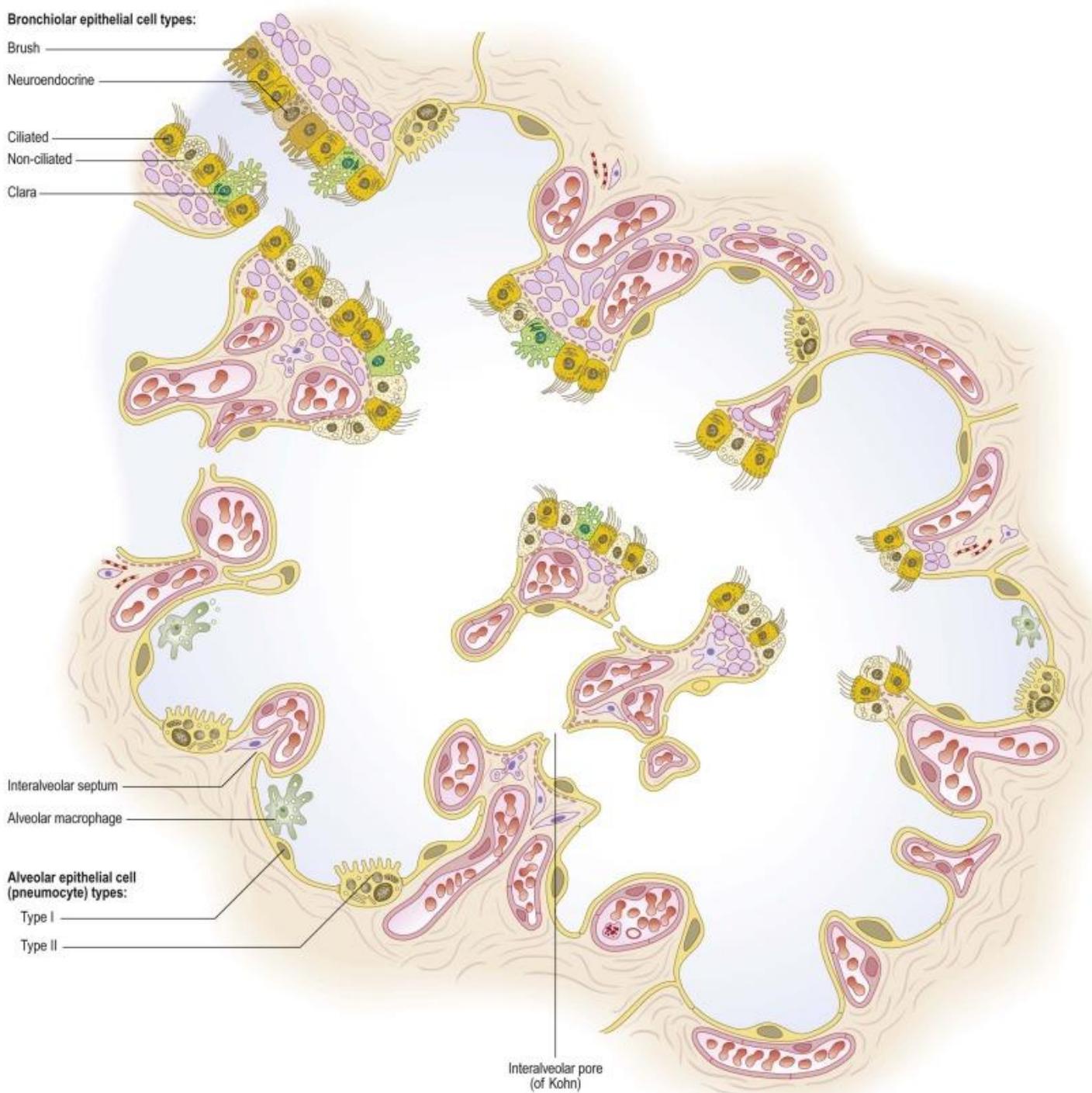
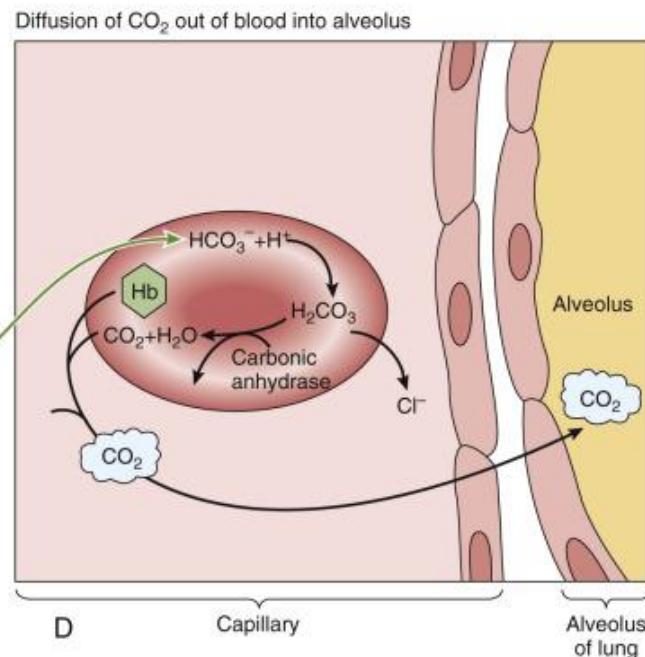
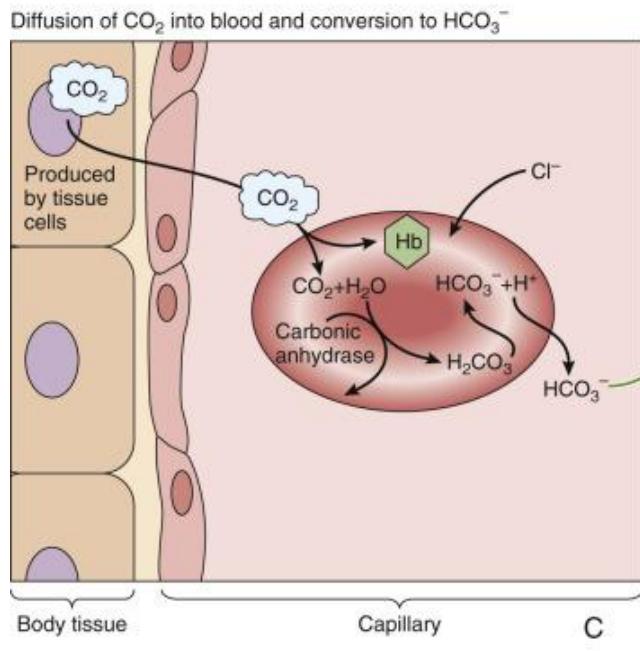
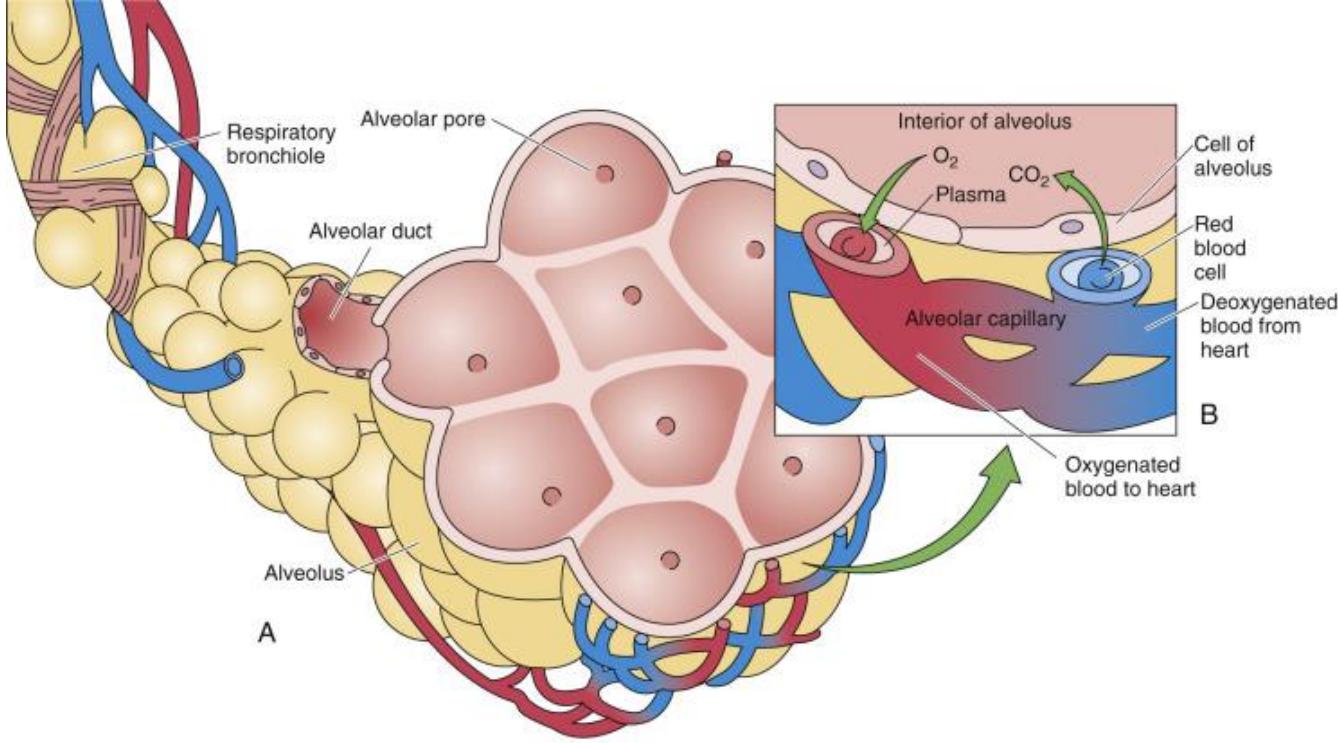


**Regional distribution of the cell types in the respiratory tract epithelium**  
(in approximate order of frequency in the region)

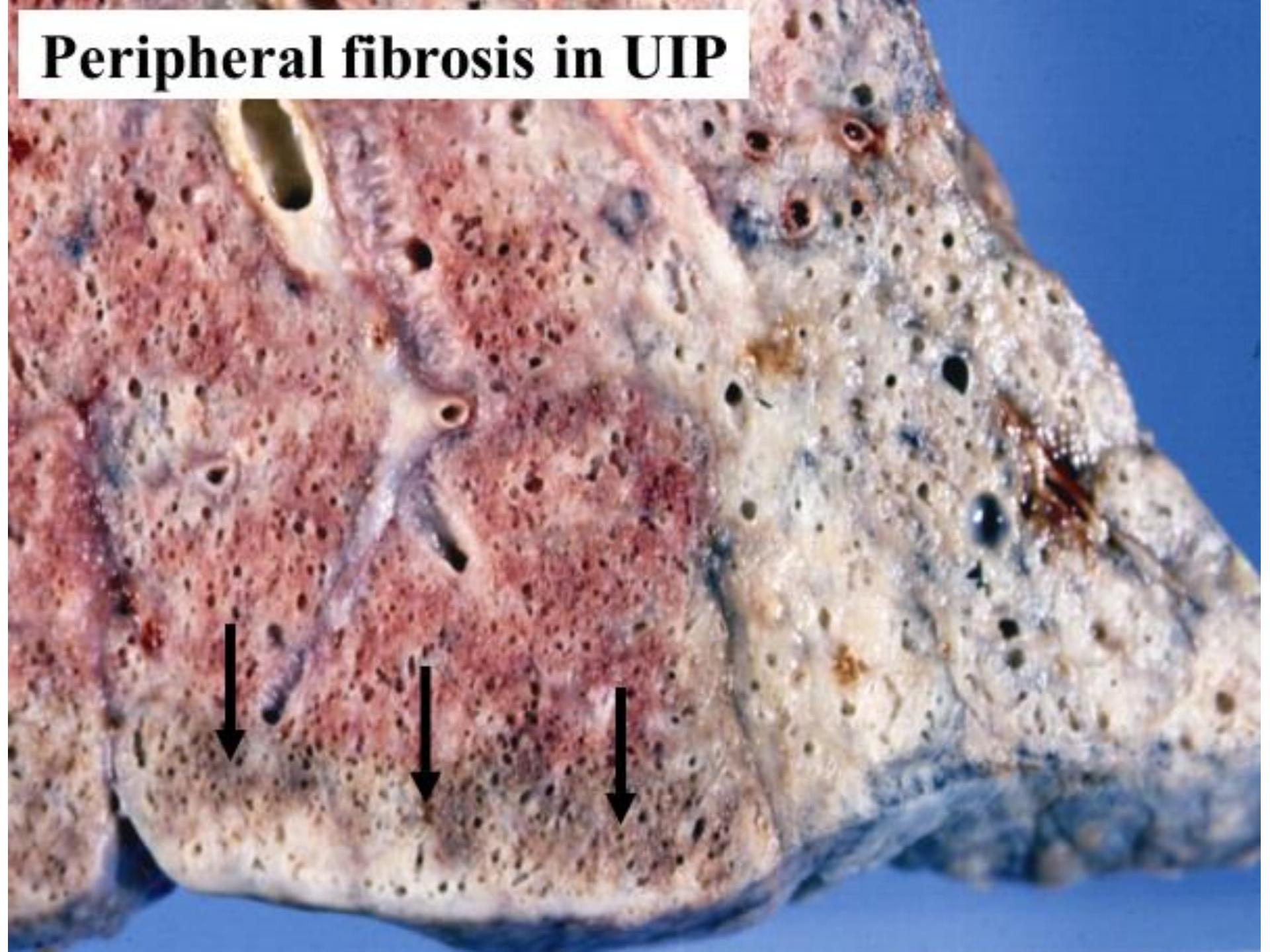
- Ciliated columnar epithelial cells
- Goblet cells
- Basal cells
- Seromucous gland cells
- Neuroendocrine cells
- Brush cells
  
- Ciliated cuboidal epithelial cells
- Basal cells
- Seromucous gland cells (upper part of region only)
- Brush cells
  
- Ciliated and non-ciliated cuboidal epithelial cells
- Clara cells
- Brush cells
  
- Ciliated and non-ciliated cuboidal epithelial cells
- Clara cells
- Type I pneumocytes
- Type II pneumocytes

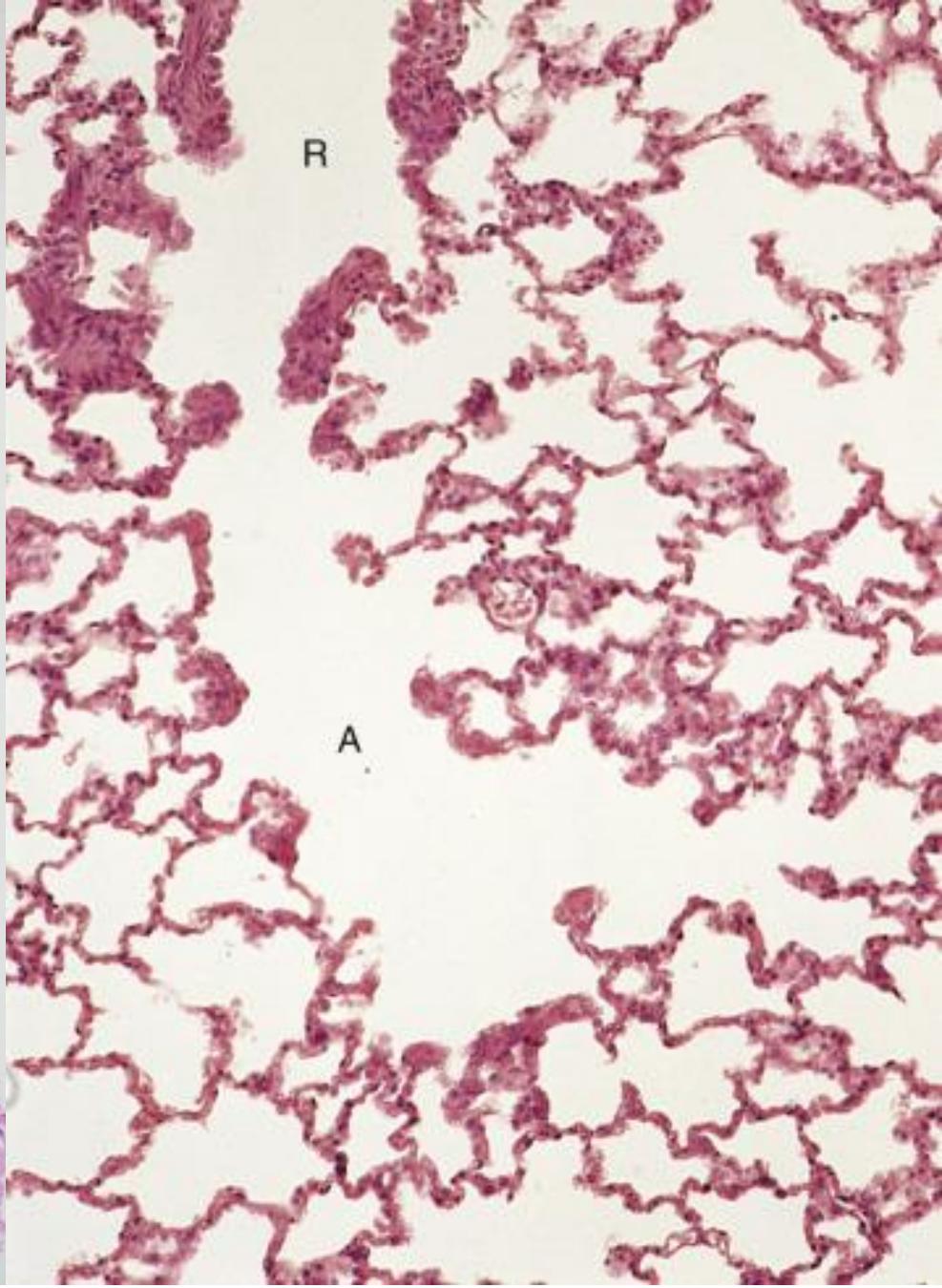
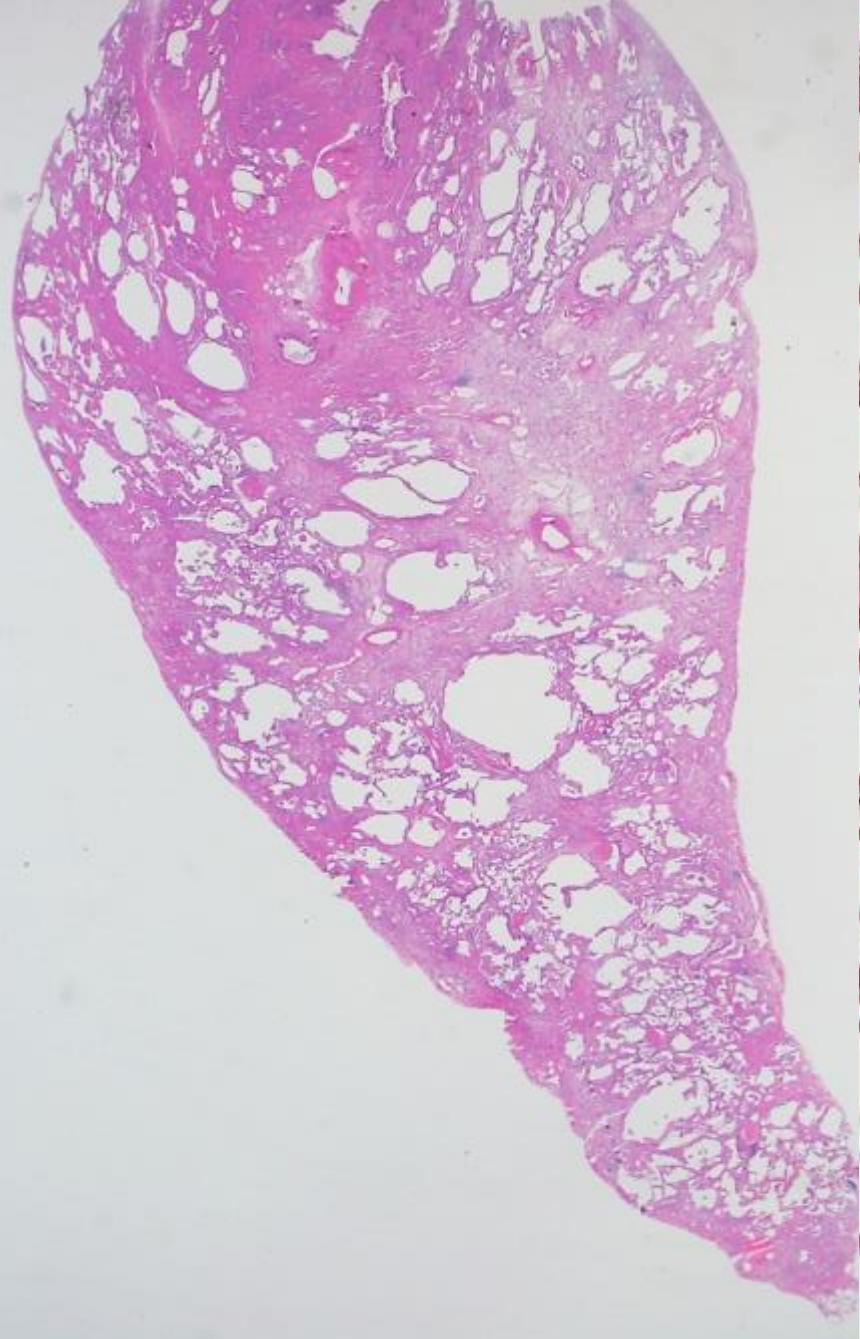






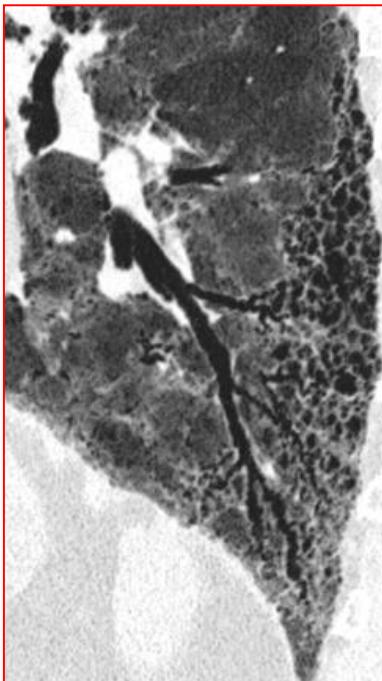
# Peripheral fibrosis in UIP



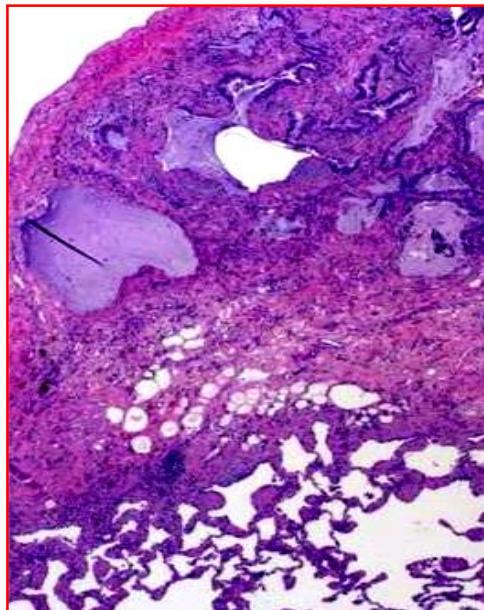


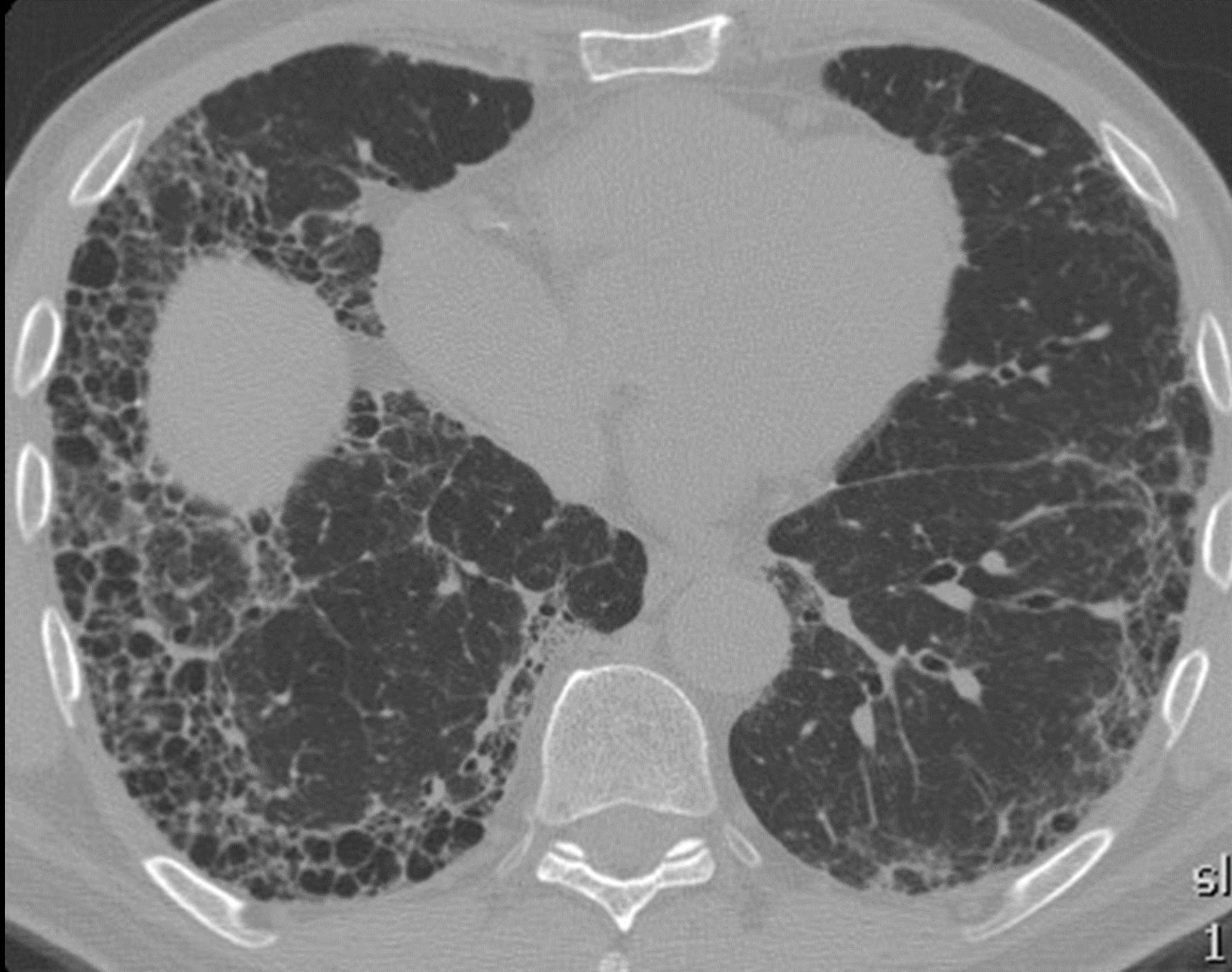


# IPF



- Età
- Fumo
- Familiare vs sporadica
- Disposizione anatomica

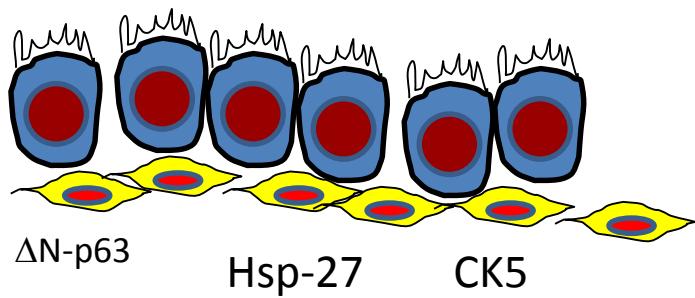




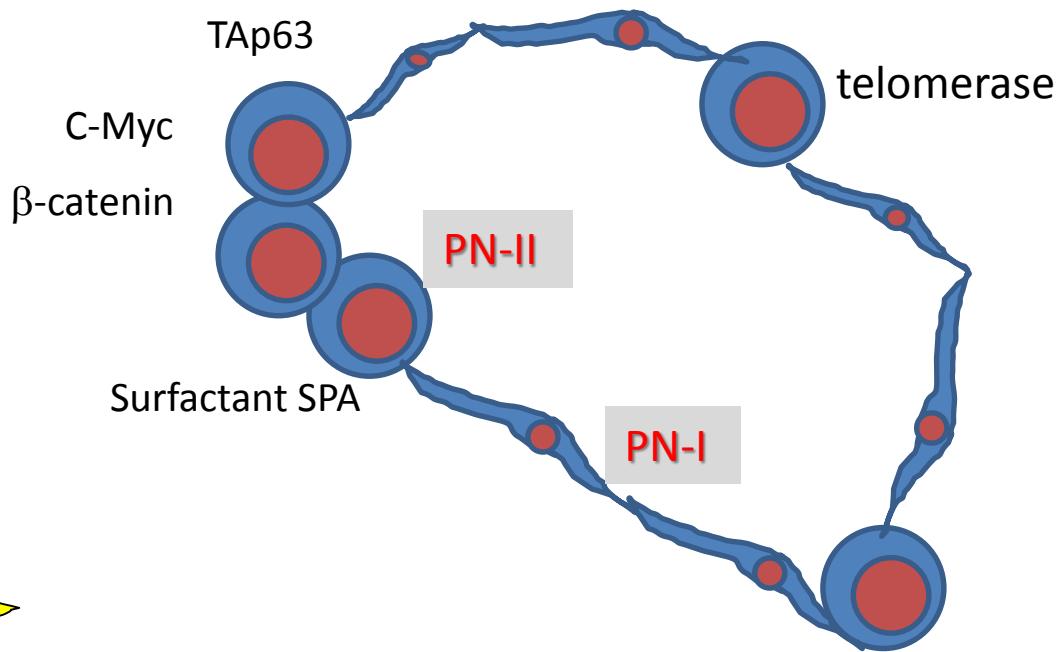
s  
1

## PATOGENESI DELLA IPF

BRONCHIOLI



ALVEOLI



paolo giordano

la solitudine dei numeri primi

romanzo



MONDADORI

WILDSIDE e MEDUSA FILM  
PRESENTANO

67  
VENEZIA CINEMA 2010

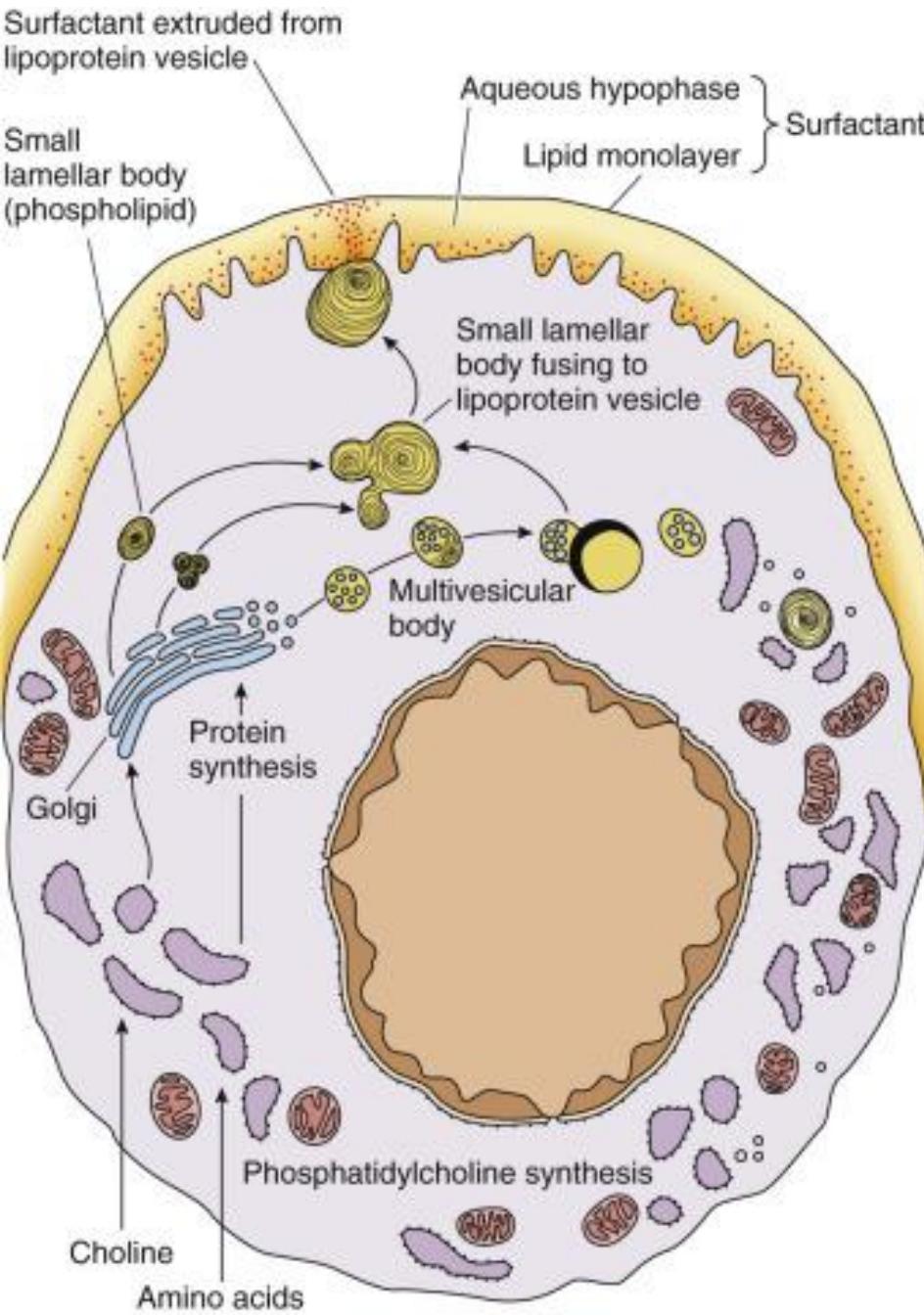
"DAL ROMANZO DI PAOLO GIORDANO"

LA SOLITUDINE  
DEI NUMERI PRIMI

REGIA DI SAVERIO COSTANZO

[www.repubblica.it/lasolitudinedeinumeriprimi](http://www.repubblica.it/lasolitudinedeinumeriprimi)





PNEUMOCITA tipo ii

CELLULA STAMINALE ALVEOLARE

# Sarcoidosis Vasc Diffuse Lung Dis. 2010

## EPITHELIAL STEM CELL EXHAUSTION IN THE PATHOGENESIS OF IDIOPATHIC PULMONARY FIBROSIS

M. Chilosi<sup>1</sup>, C. Doglioni<sup>2</sup>, B. Murer<sup>3</sup>, V. Poletti<sup>4</sup>

### REVIEW ARTICLE

Premature lung aging and cellular senescence in the pathogenesis of idiopathic pulmonary fibrosis and COPD/emphysema

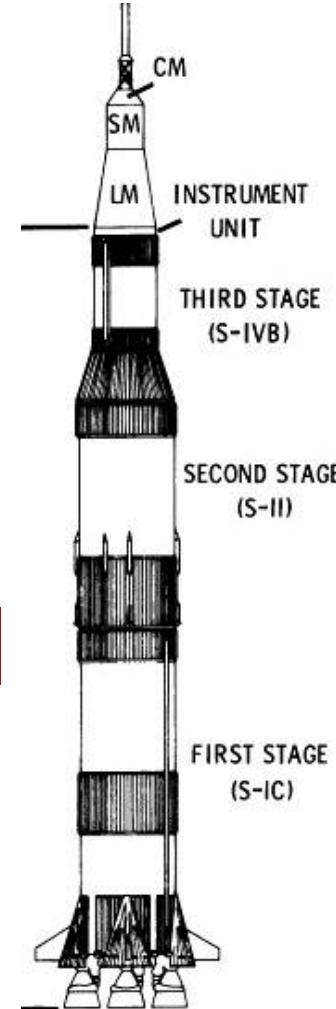


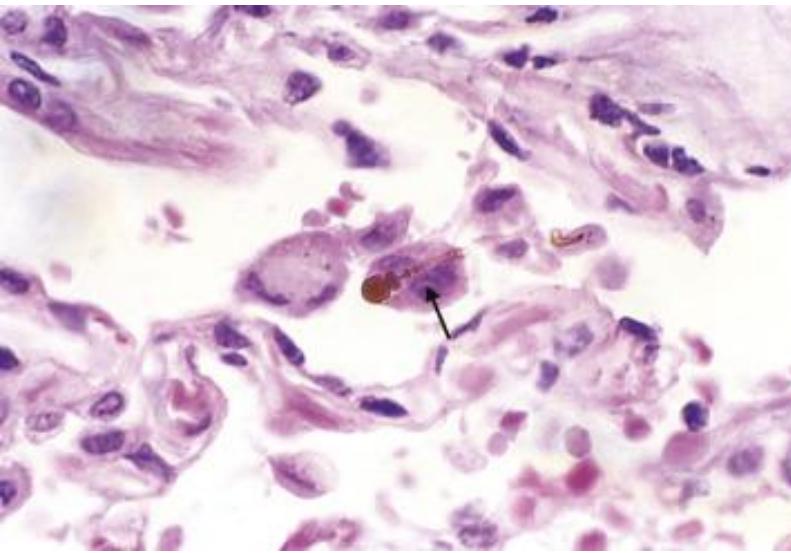
Transl Res 2013

MARCO CHILOSI, ANGELO CARLONI, ANDREA ROSSI, and VENERINO POLETTI

VERONA, TERNI, AND FORLI, ITALY

3. RIMODELLAMENTO
  
2. ATTIVAZIONE DI VIE MOLECOLARI
  
1. PERDITA DI CELLULE ALVEOLARI/  
SENESCENZA





## CELLULE ALVEOLARI STAMINALI NELLA IPF

### FATTORI ESOGENI

- \*FUMO
- \*INQUINAMENTO

### FATTORI ENDOGENI (forme famigliari)

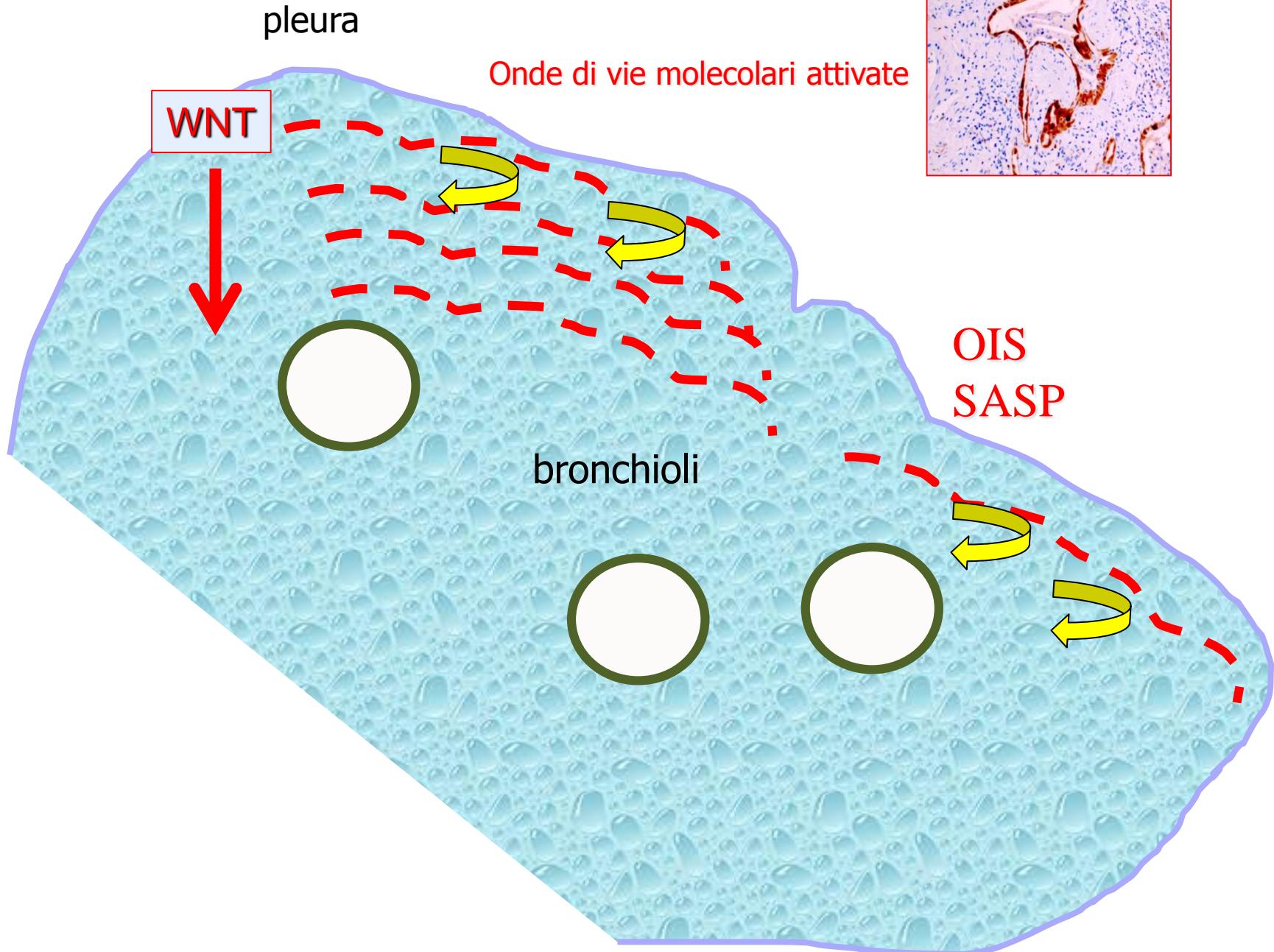
- \*MUTAZIONI
- \*POLIMORFISMI

Biblioteca Adelphi 358

*Sir Salvador Mazzatorta*

LE BRACI







## RIMODELLAMENTO NELLA IPF

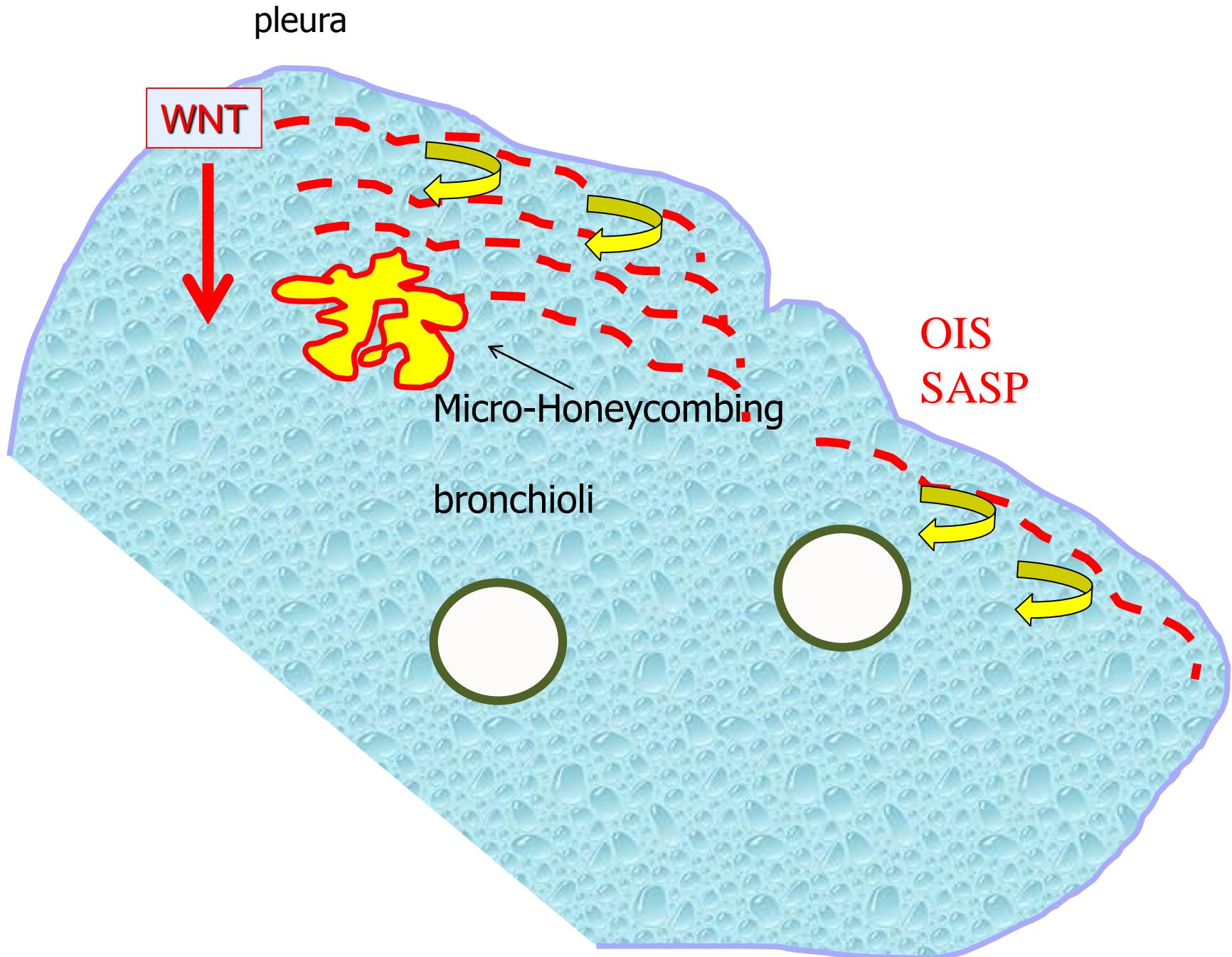
A “gioco truccato” fra componente bronchiolare e alveolare

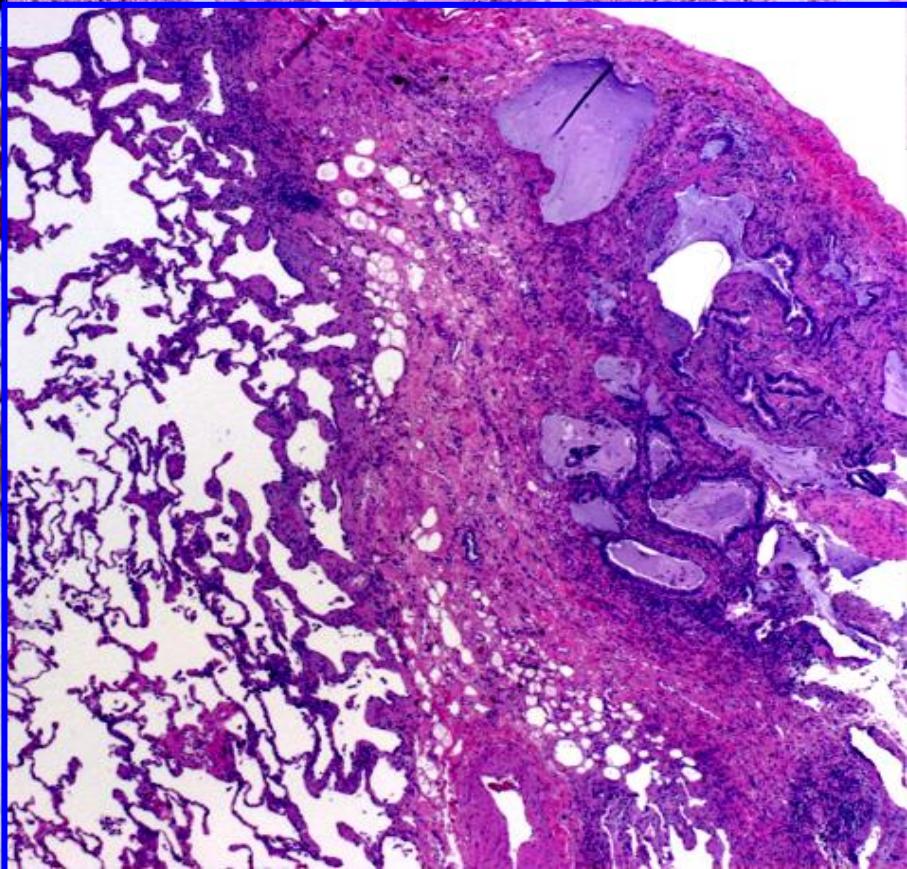
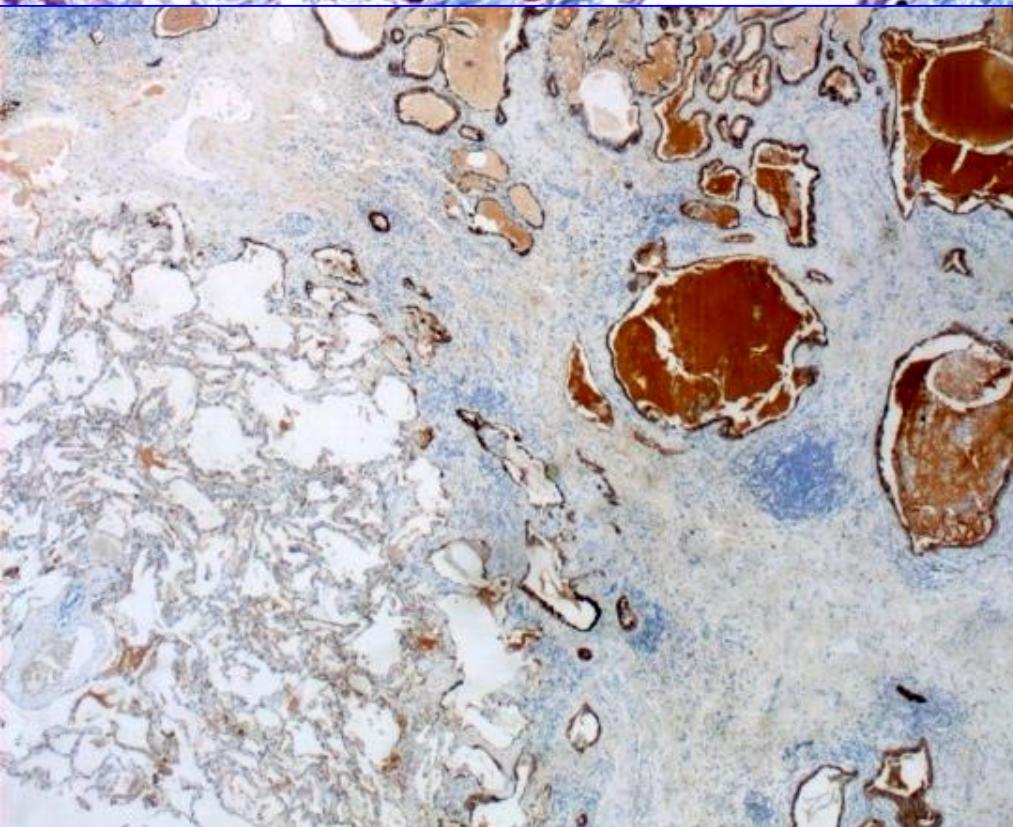
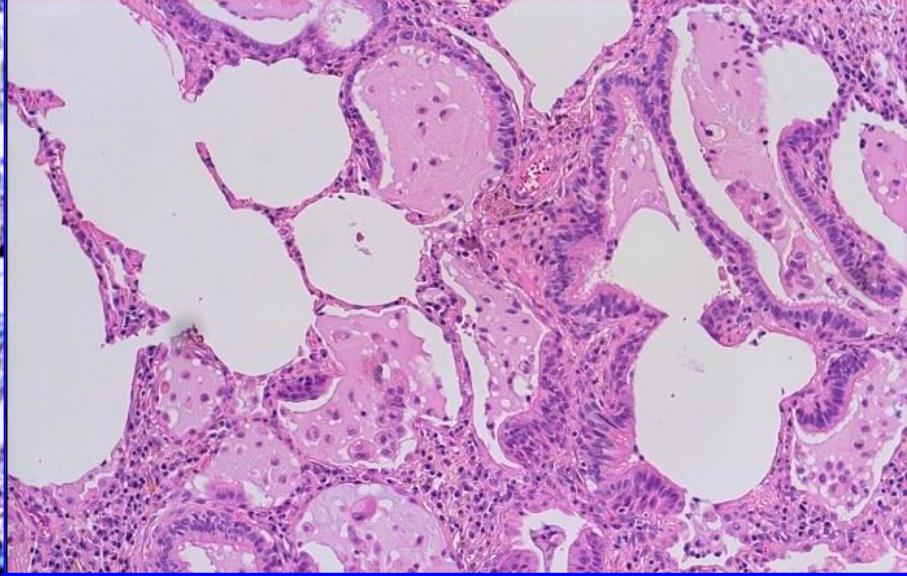
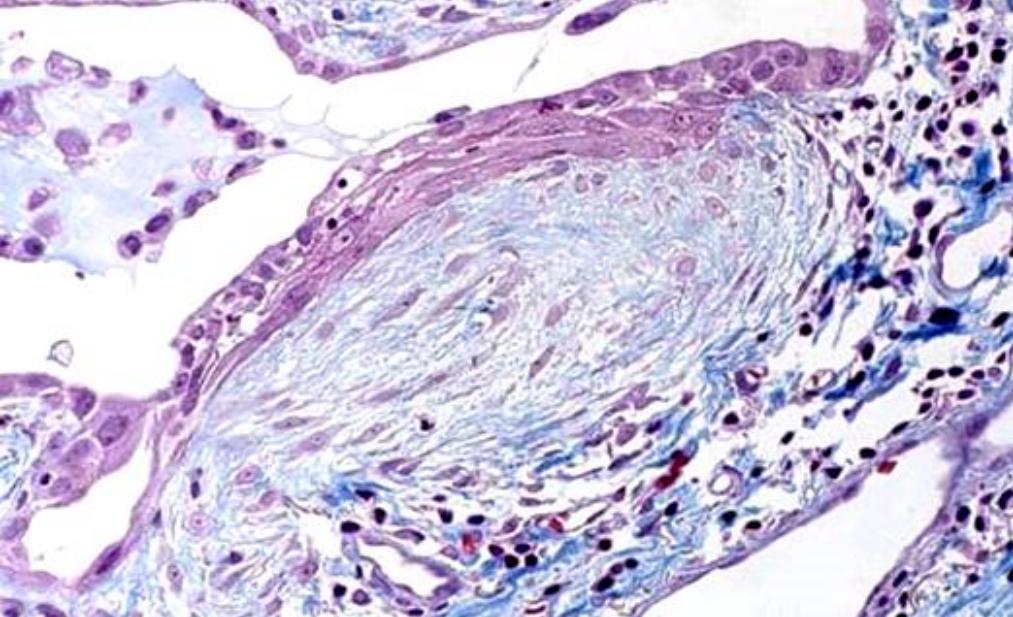
Omero  
ILIADE

a cura di Maria Grazia Ciani



GRANDI CLASSICI **tascabili** Marsilio



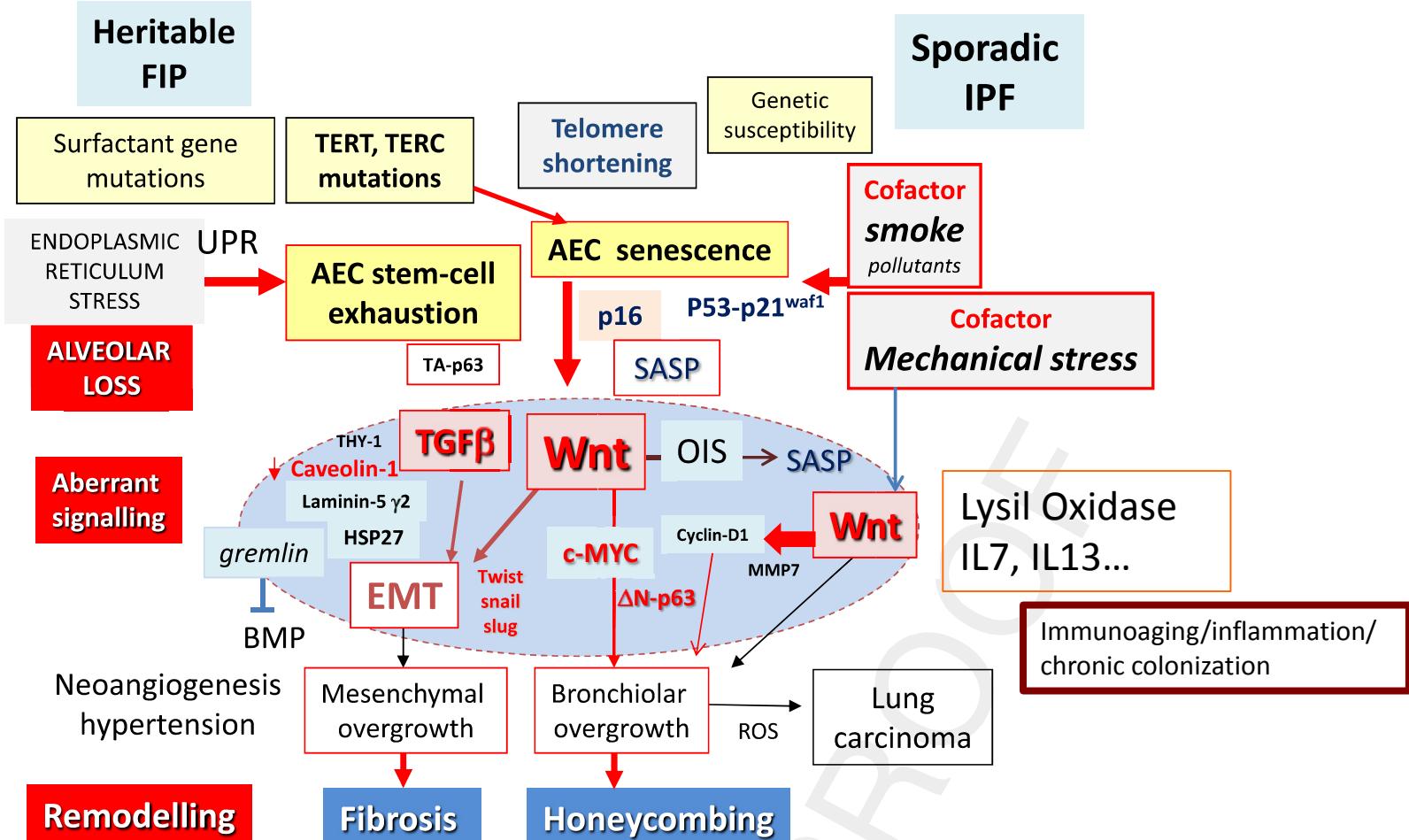


# REVIEW ARTICLE

Premature lung aging and cellular senescence in the pathogenesis of idiopathic pulmonary fibrosis and COPD/emphysema

MARCO CHILOSI, ANGELO CARLONI, ANDREA ROSSI, and VENERINO POLETTI

VERONA, TERNI; AND FORLI, ITALY



**Fig 8.** General scheme describing the different steps of idiopathic pulmonary fibrosis pathogenesis as proposed in this review.

