

GEN FEAT

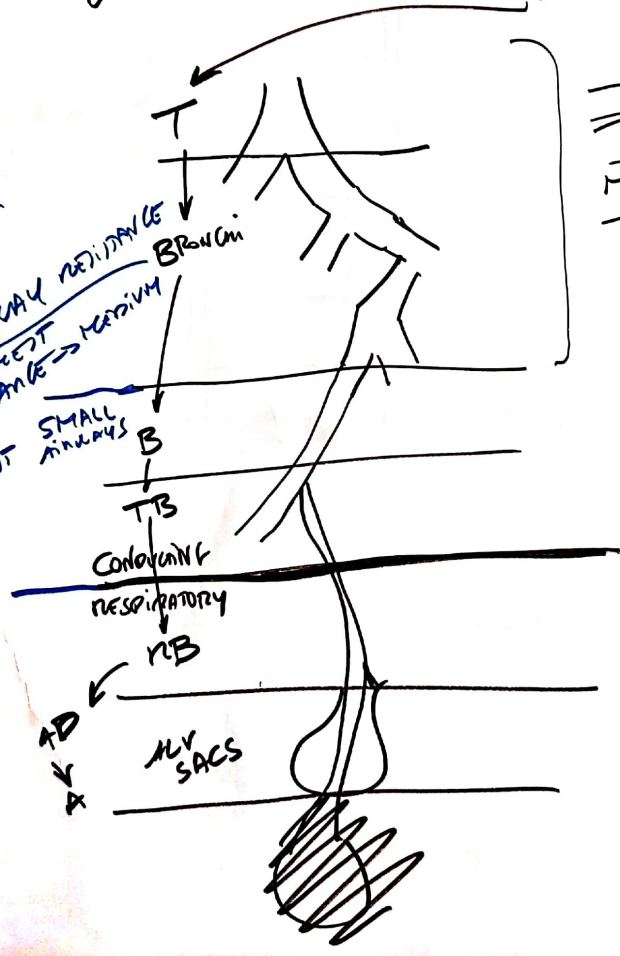
NASAL CAVITIES → NASOPHARYNX → OROPHARYNX → LAR

→ ANAT DEAD SPACE

AIR  
FILTERS  
HUMIDIFIED  
WARM

• AIRWAY RESISTANCE  
HIGHEST  
LARGE → MEDIUM

• LARGE # IN // → LEAST AIRWAY RESIST



- EPIT
- MUCOSA ②
- LP
- MUSC ②
- SUBMUC ③
- ADV ④

AD  
ALV SACS

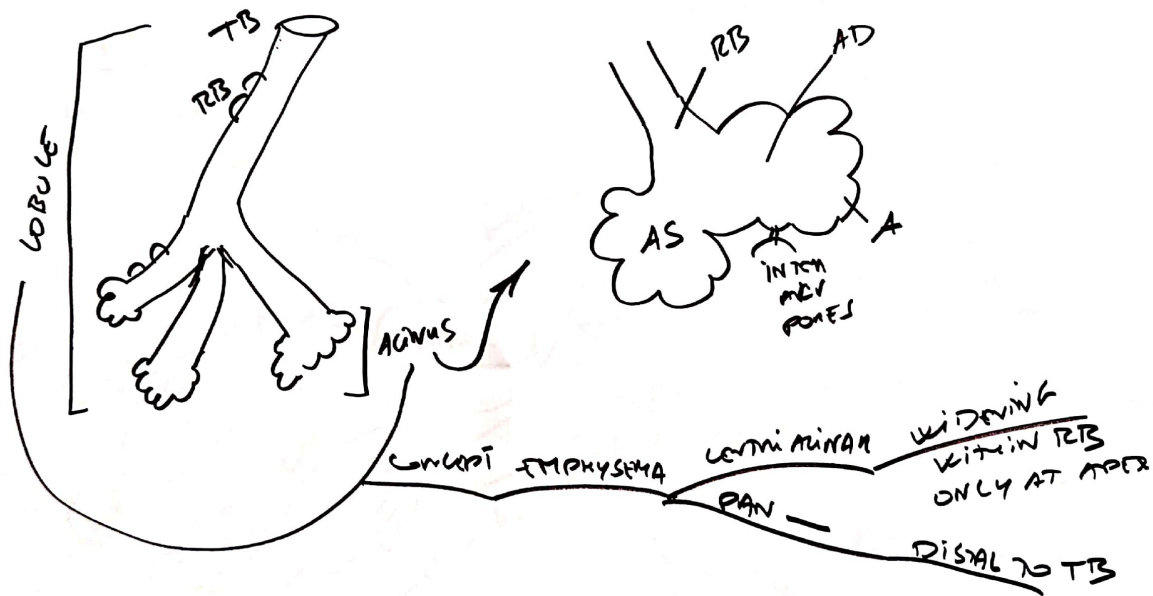
	MUC EPIT + LP	MUSC SM	SUB MUC		ADV	GEN FEAT LUNG
			GLANDS	FIBERS	CART	
T Pseudostrat	RESP COL & ELAST F	SPANS EP AND CART RINGS (TRAC M)	SEROMUC	COLLAGEN F	C-SHAPED HYALINE	<p>GEN FEAT LUNG</p> <p>→ END BRONCHI</p> <p>Ciliated</p> <p>Goblet</p> <p>Basal SM</p> <p>CART</p>
Bronchi		PROM CIRC LAYER			INNER HYAL PLATE	
B	SIMP CIL COLUMN & CLANA & COL & ELAST F		∅	∅	∅	
TB	CUBOID	REDUCED INCOMPLETE				
RTB	CUB	PROM DI SCANT RING				
AD	SQUAM	"VIBRIS"				
A	PIII MAC	∅				<p>Cilia</p> <p>Microvilli</p> <p>PII</p> <p>PII</p> <p>Cap</p>

Columnar  
Pseudostrat  
Ciliated  
Goblet  
Basal  
SM  
CART

COL + ELAST + SURFACTANT → ELASTANCE

Columnar  
with  
microvilli

RB → AD → A



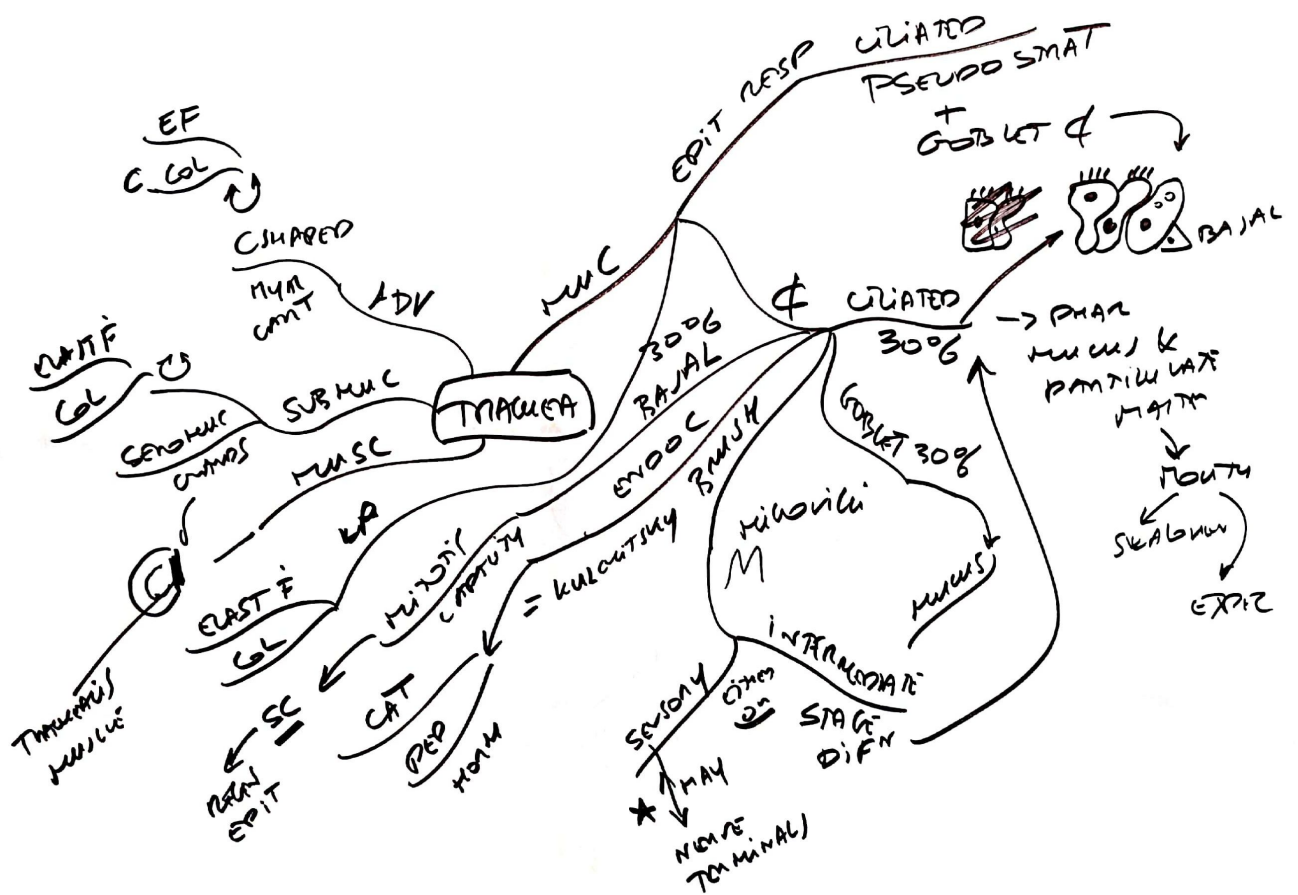
CONCEPT EMPHYSEMA

CENTRIACINAR

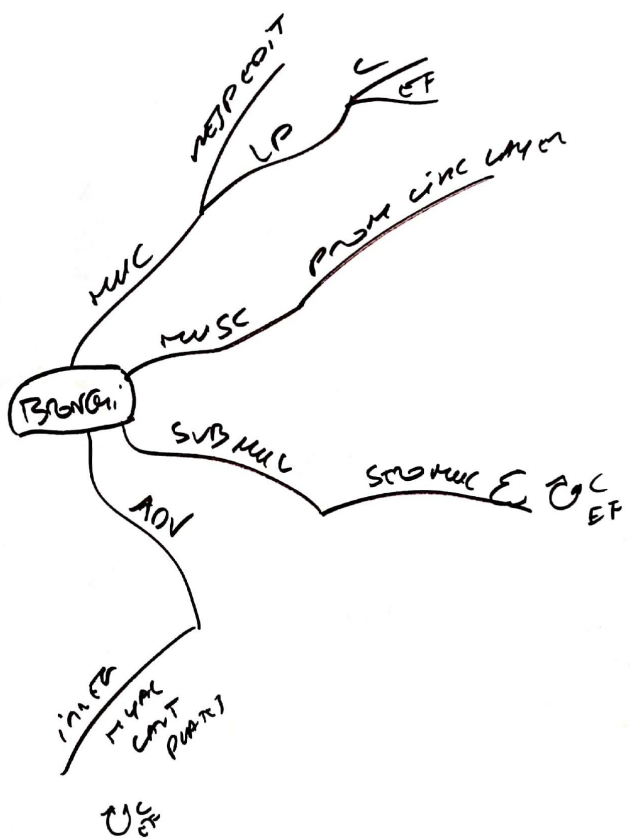
PAN

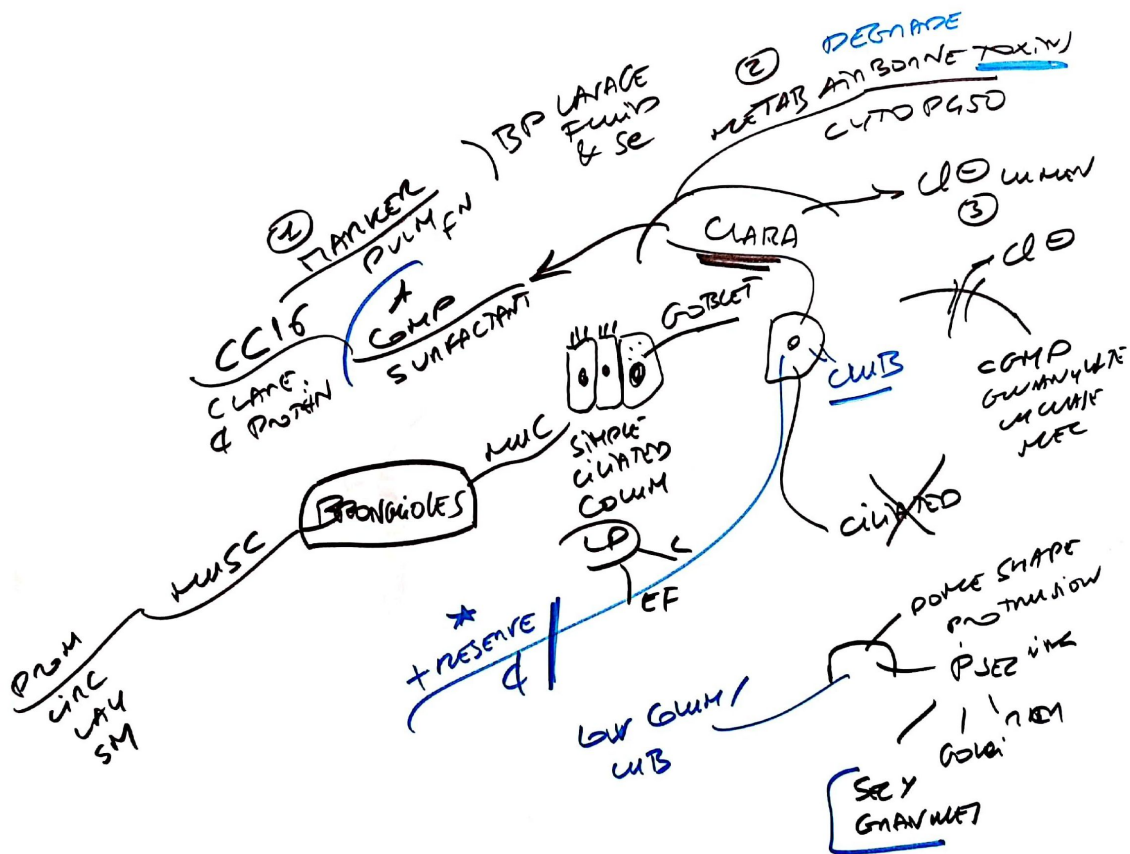
WIDENING  
WITHIN RB  
ONLY AT APEX

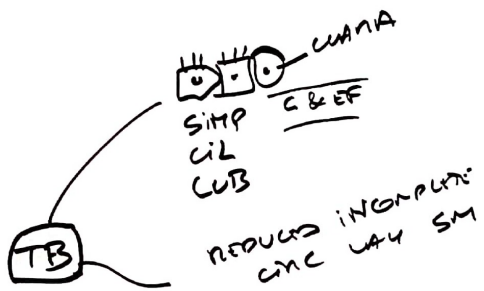
DISTAL TO TB



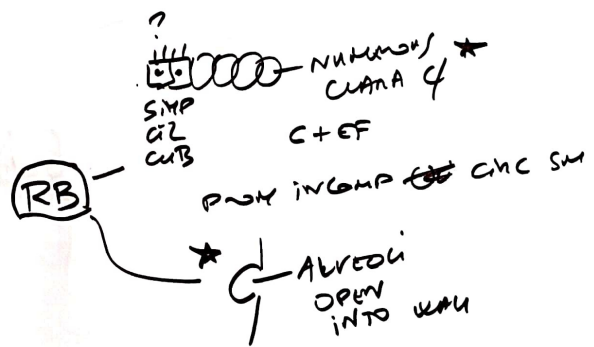







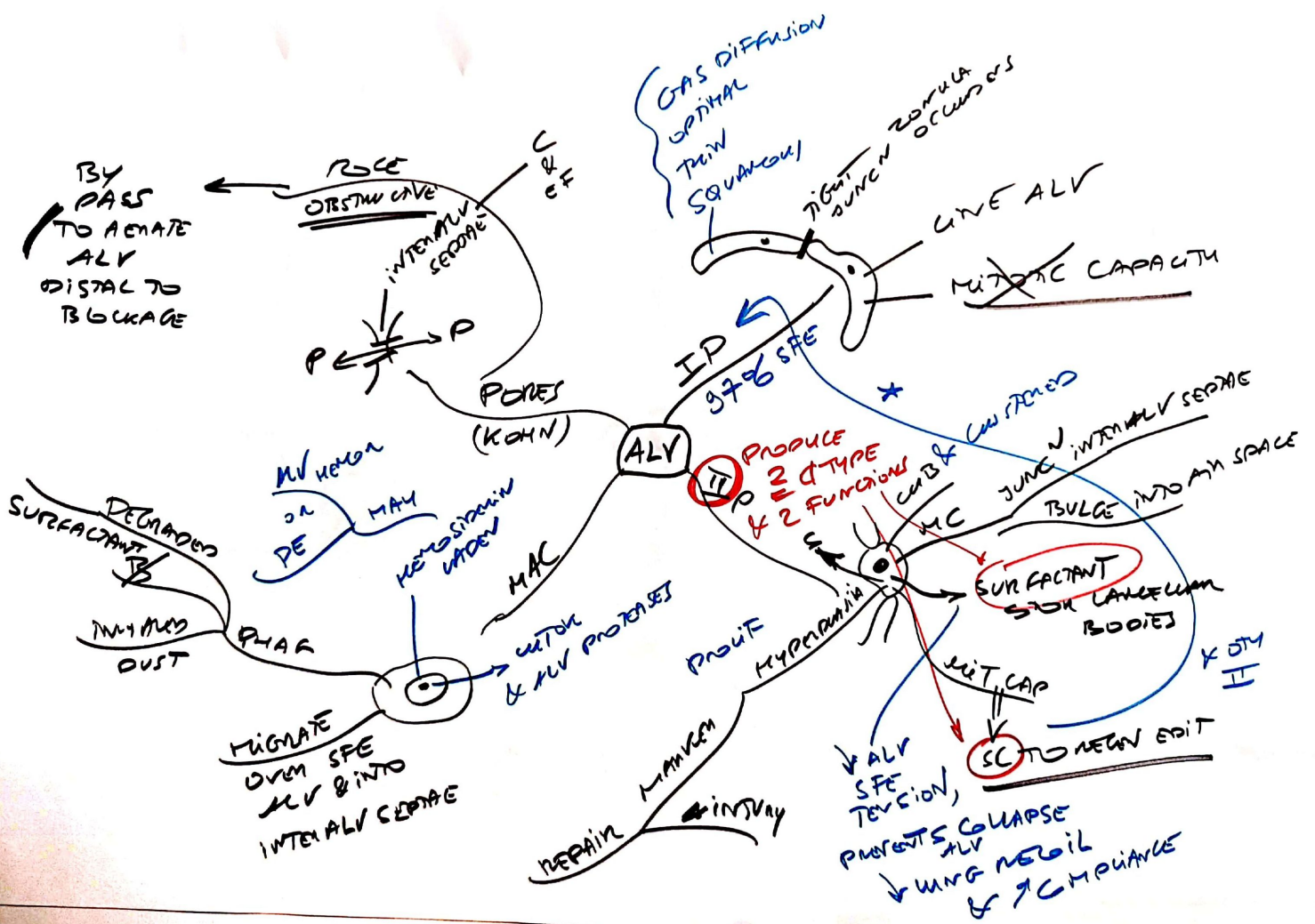






  
SQUAM CURET  
SM "KNOBS"

AD



CS  
 IMPORTANT FOR FEEL SURFACTANT PRODUCTION & UNF PVAT

RUT HAVING LEVELS WEEK 35

↑ BEINGS AROUND 20% FEEL

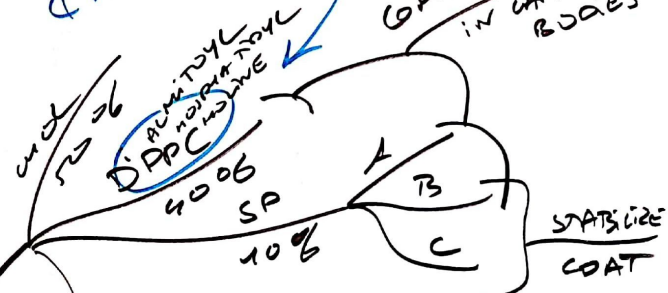
have ↑ tendency to collapse on expiration as r ↓

Complex mix

COMBINE IN LAMELLAR BODIES

DIFFICULT TO OPEN HIGH SMALL  
 EASY TO OPEN LOW E LARGE

**SURFACTANT**



LIVE ALV  
 ↓ SURF TENSION (ATTACH)

PREVENTS COLLAPSE SMALL ALV  
 NEED DISTRESS MANOVI

COLLAPSING PRESSURE  

$$E = \frac{2\sigma}{r}$$
  
 r = RADIUS ALV

LAPLACE LAW

CONTRIBUTES ELASTANCE UNF =

COLLAPSING F THAT OVS IN L AS UNF EXPANDS

3 A. C. COMP

