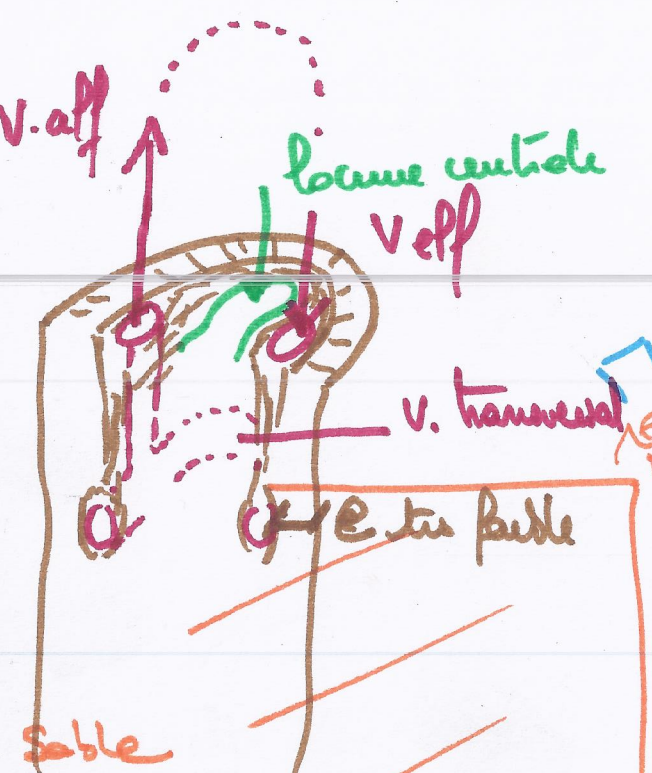
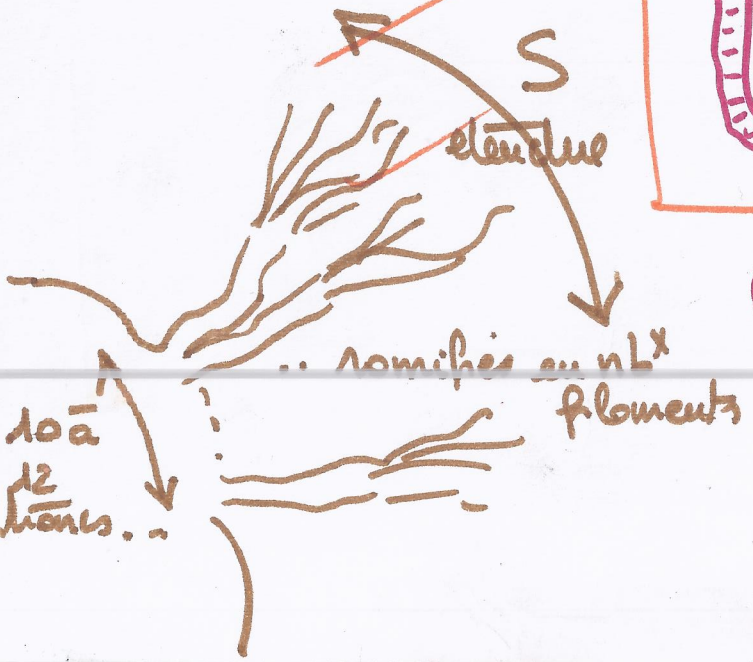


$$D = S \times \frac{K \times \Delta P_p}{e} \begin{matrix} \textcircled{1} \\ \textcircled{2} \end{matrix} \text{ en l'absence}$$

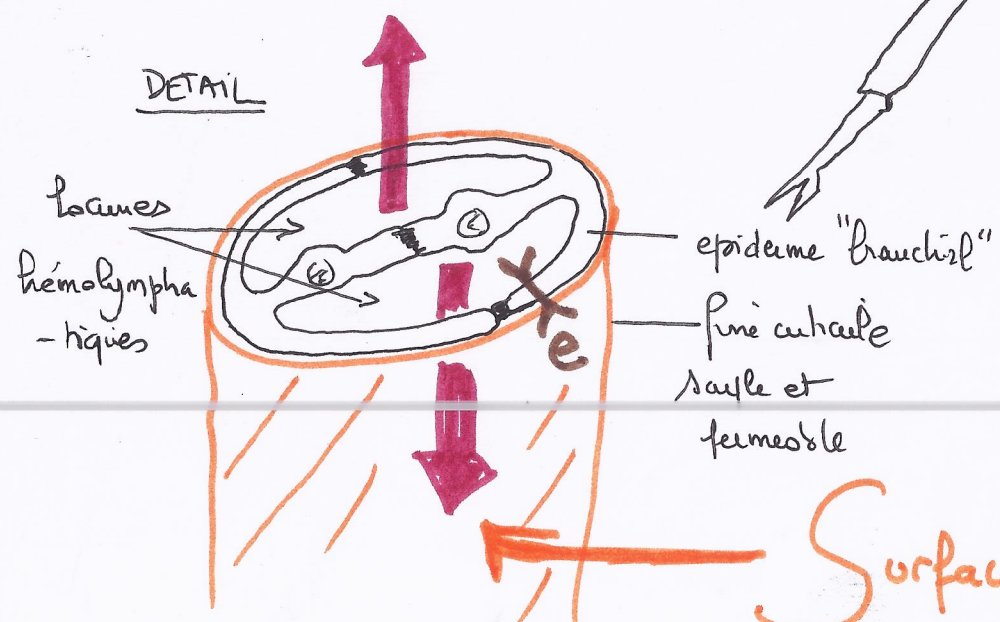
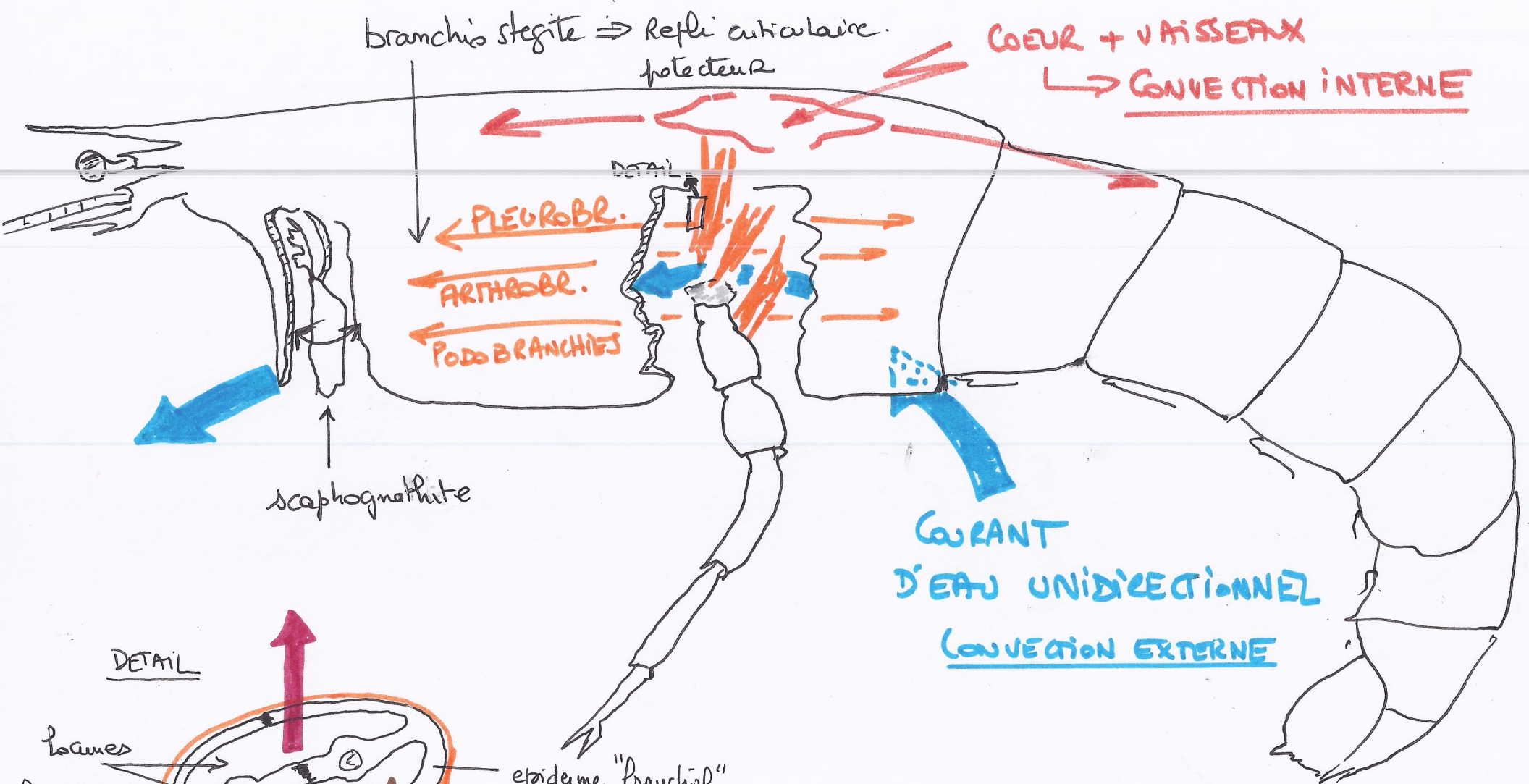


② COURANT D'EAU induit



① Mouvement de l'animal sans forme d'ondes - de contraction / relâchement

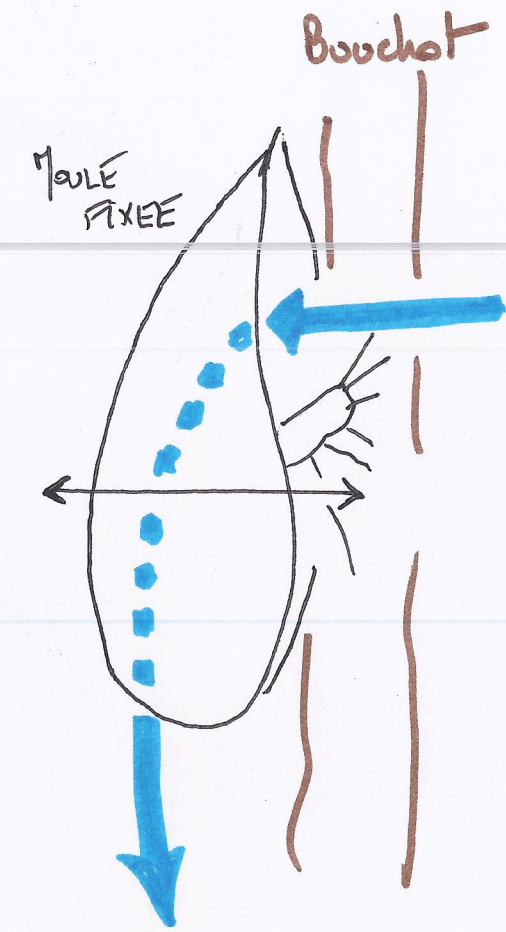
Arénicole



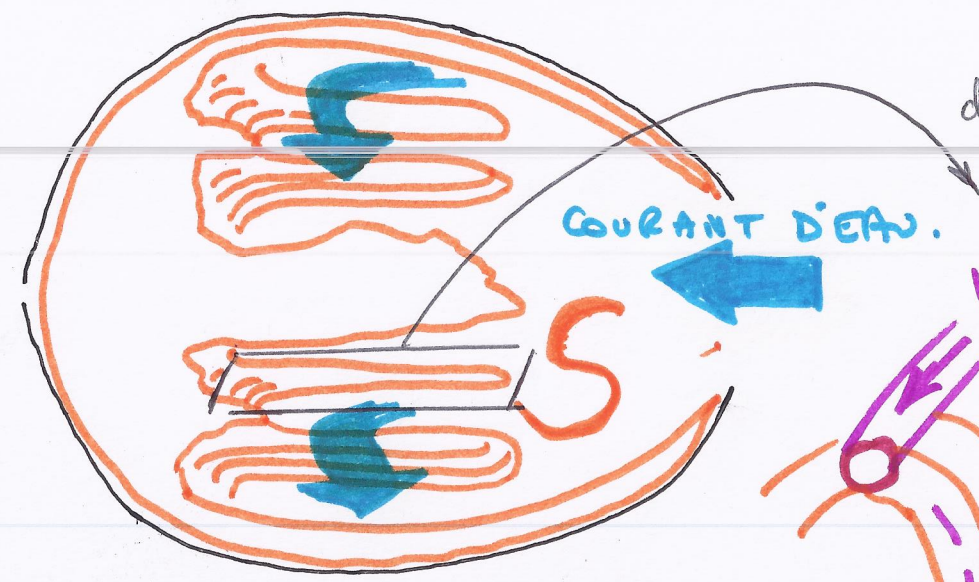
Cas Euryse

Surface = S'élémentaire  
filaments  
branchies

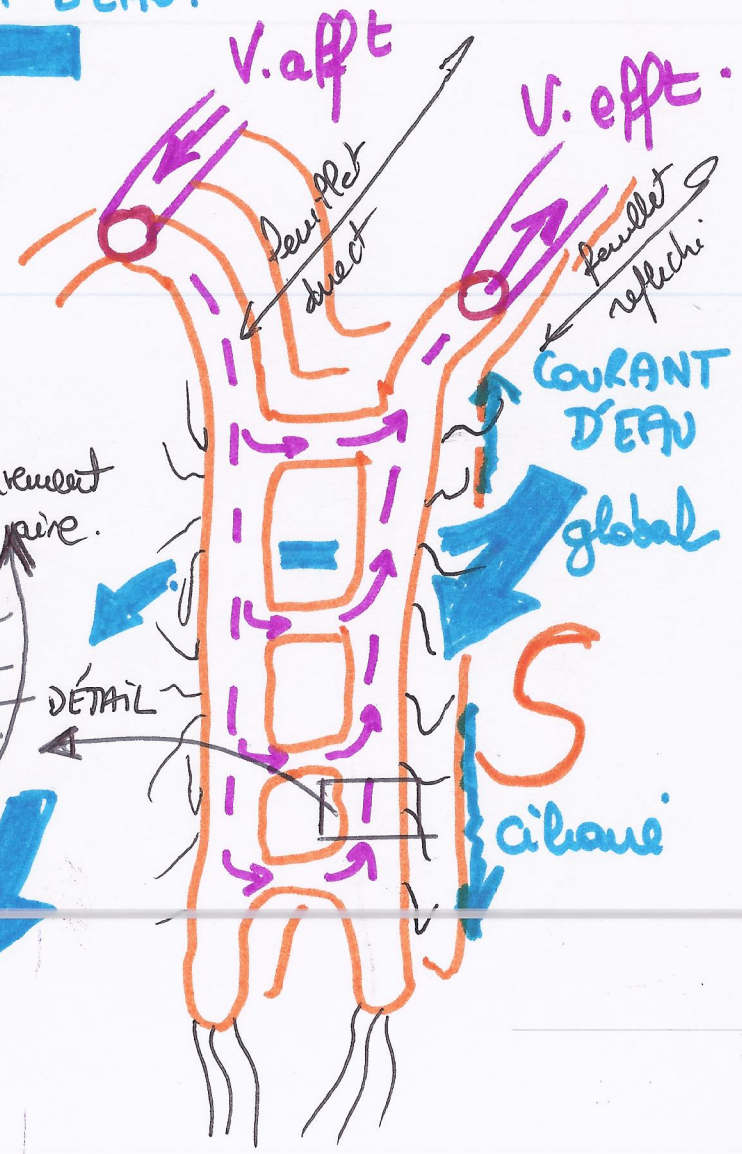
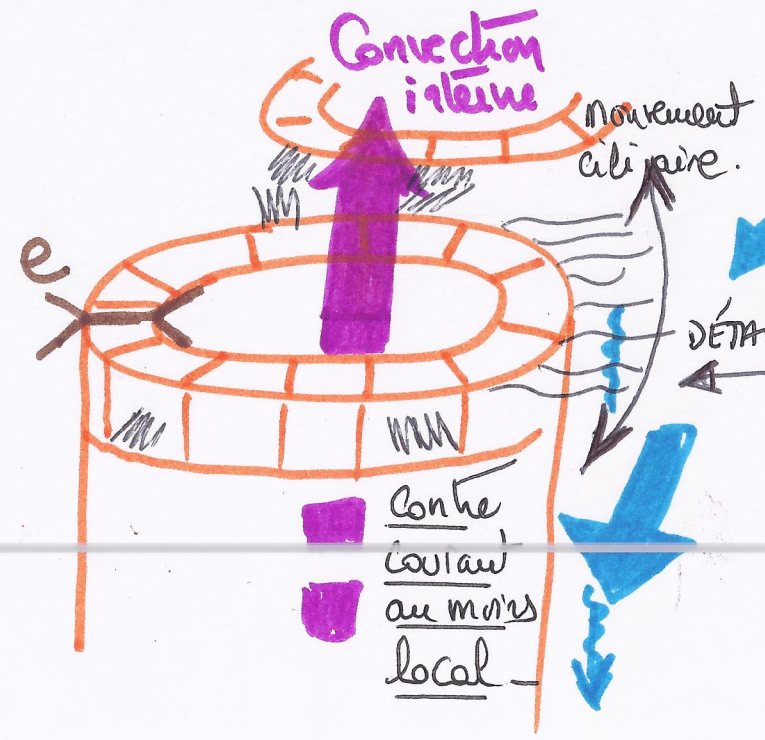




Gas moule.



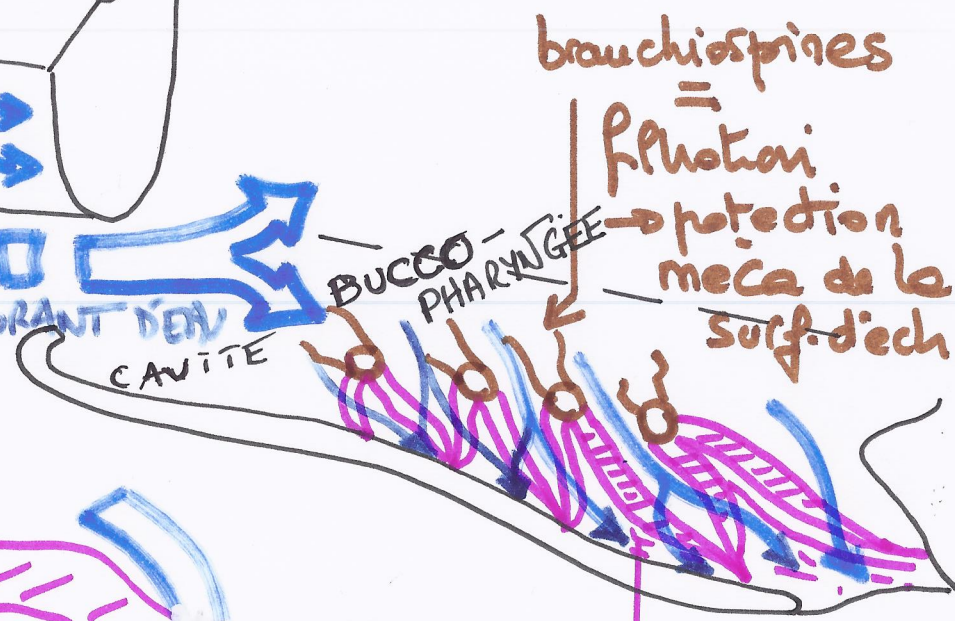
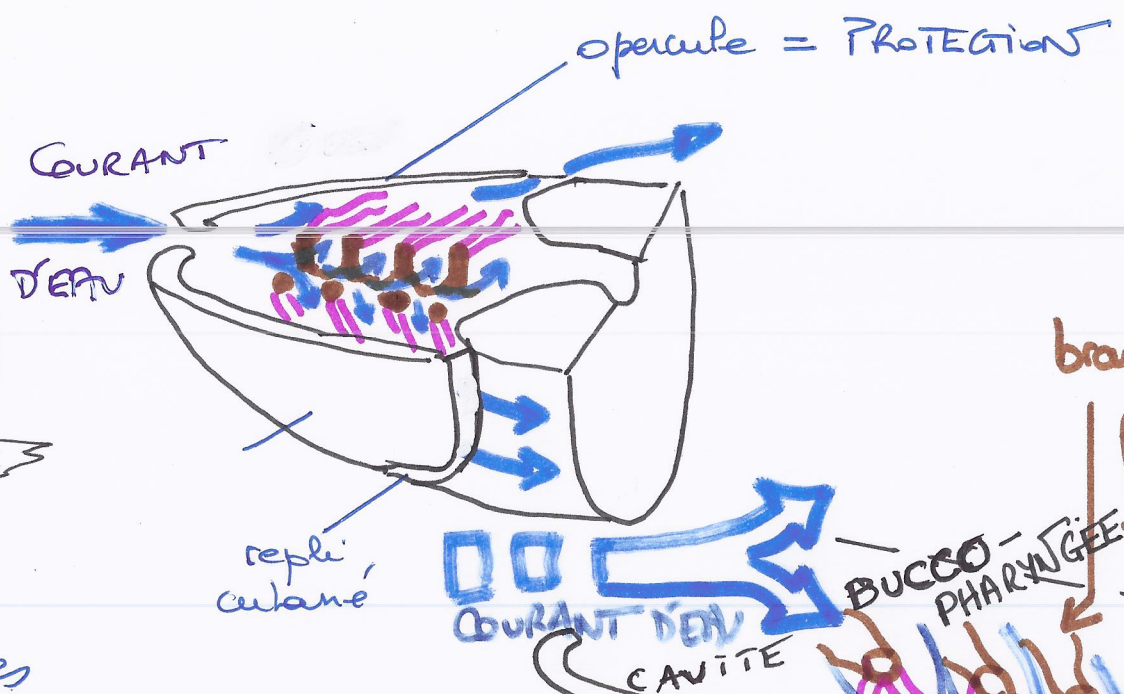
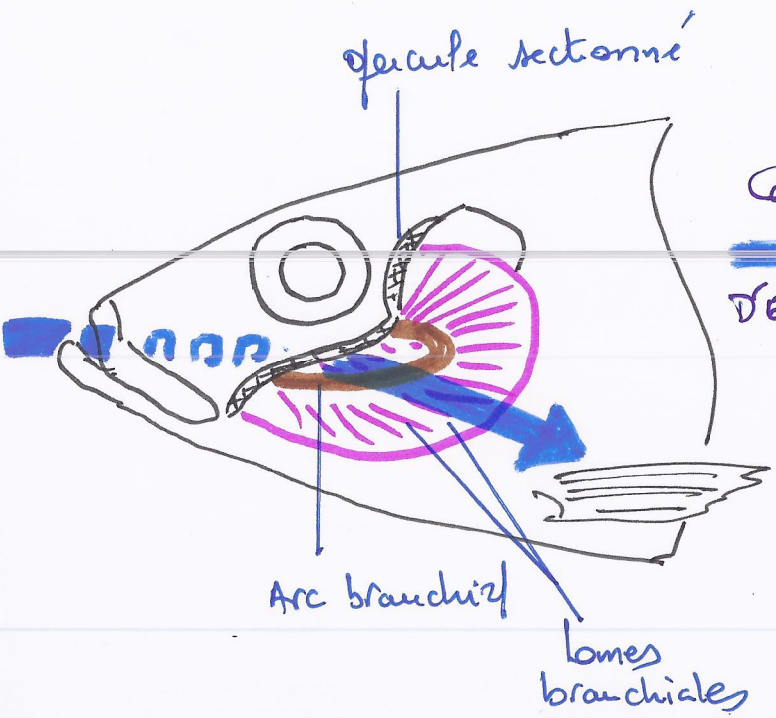
W cœur + circulation



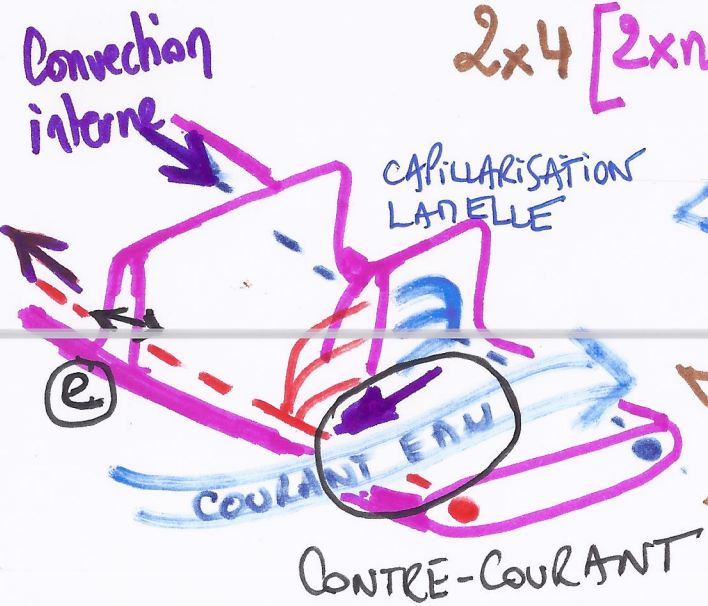
mouvement ciliare.



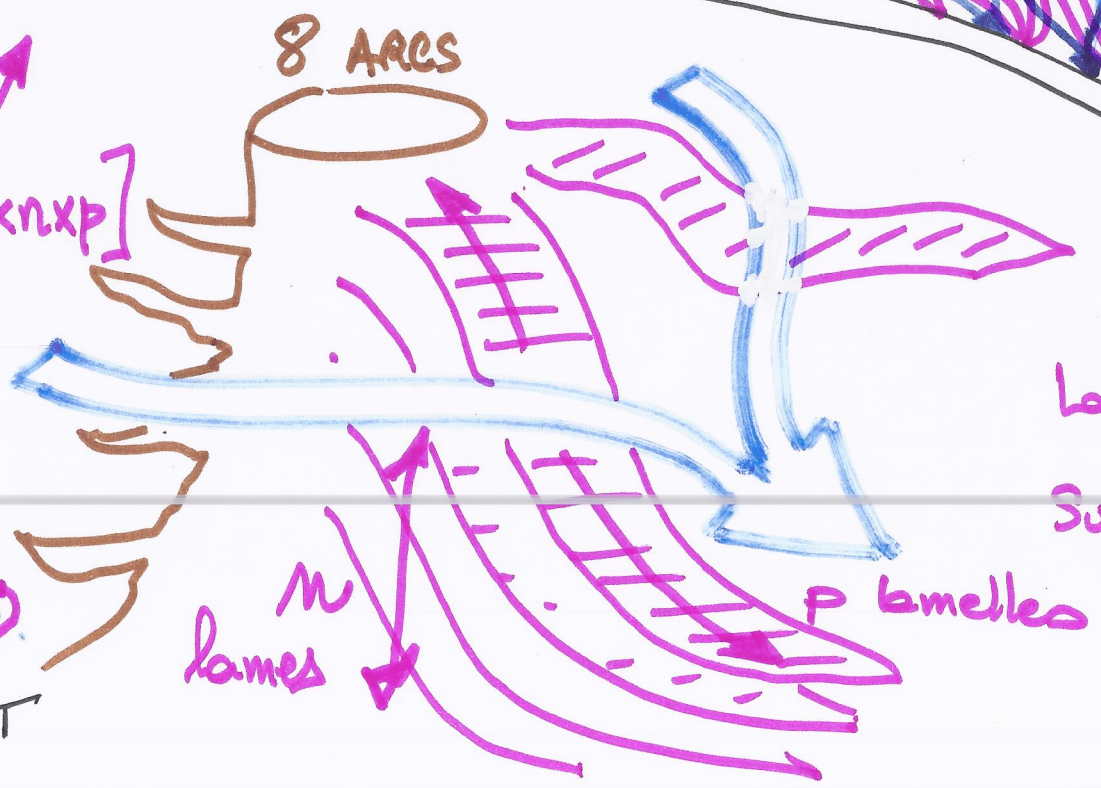
# POISSON



faible



2x4 [2xnxp]

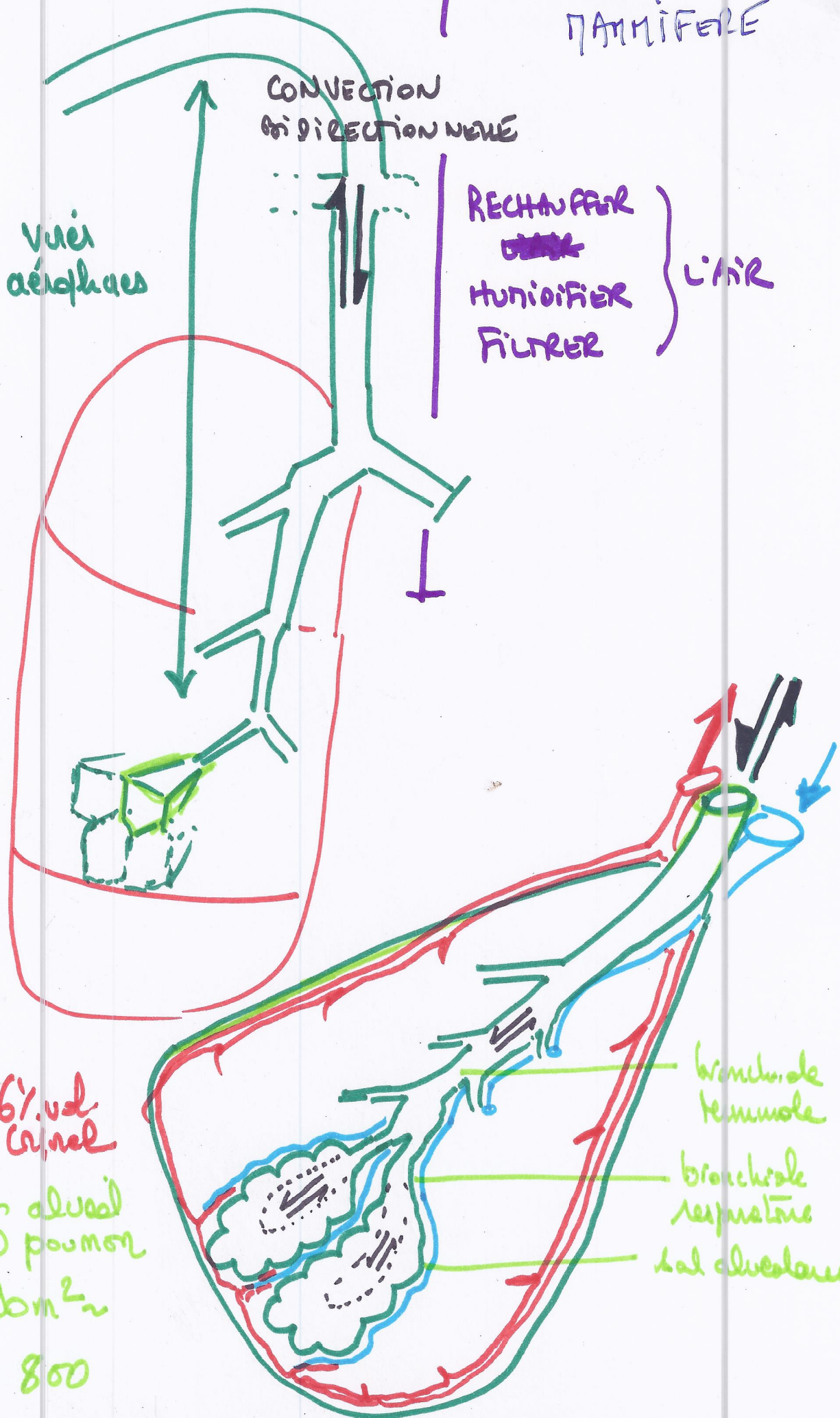


lames et lamelles branchiales = SURFACE D'ÉCHANGE



# POUMON MAMMIFERE

T



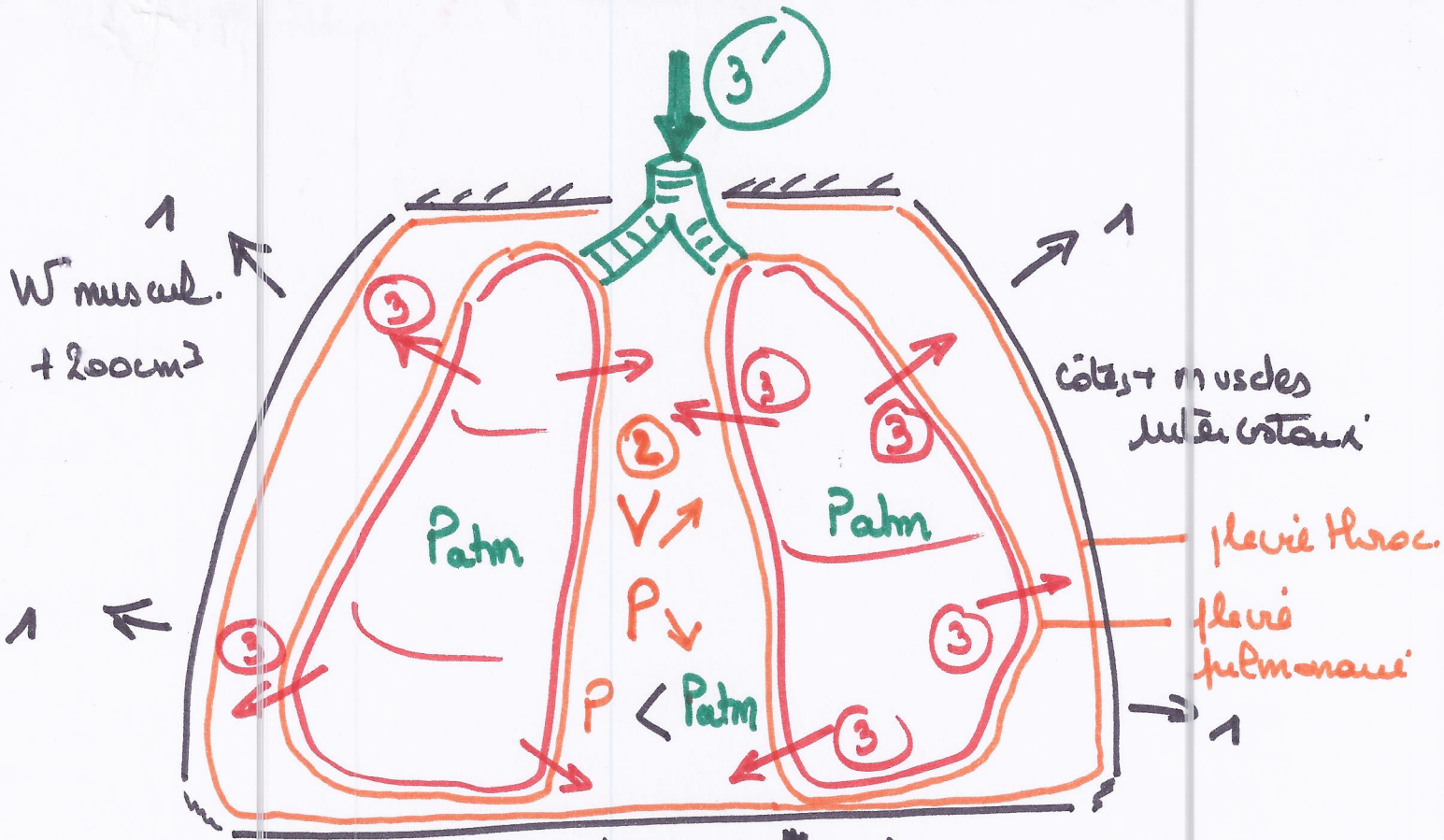
ZONE D'ENCH8

louron: 6% vol  
carnel

S alveol  
poumon  
90m<sup>2</sup>~

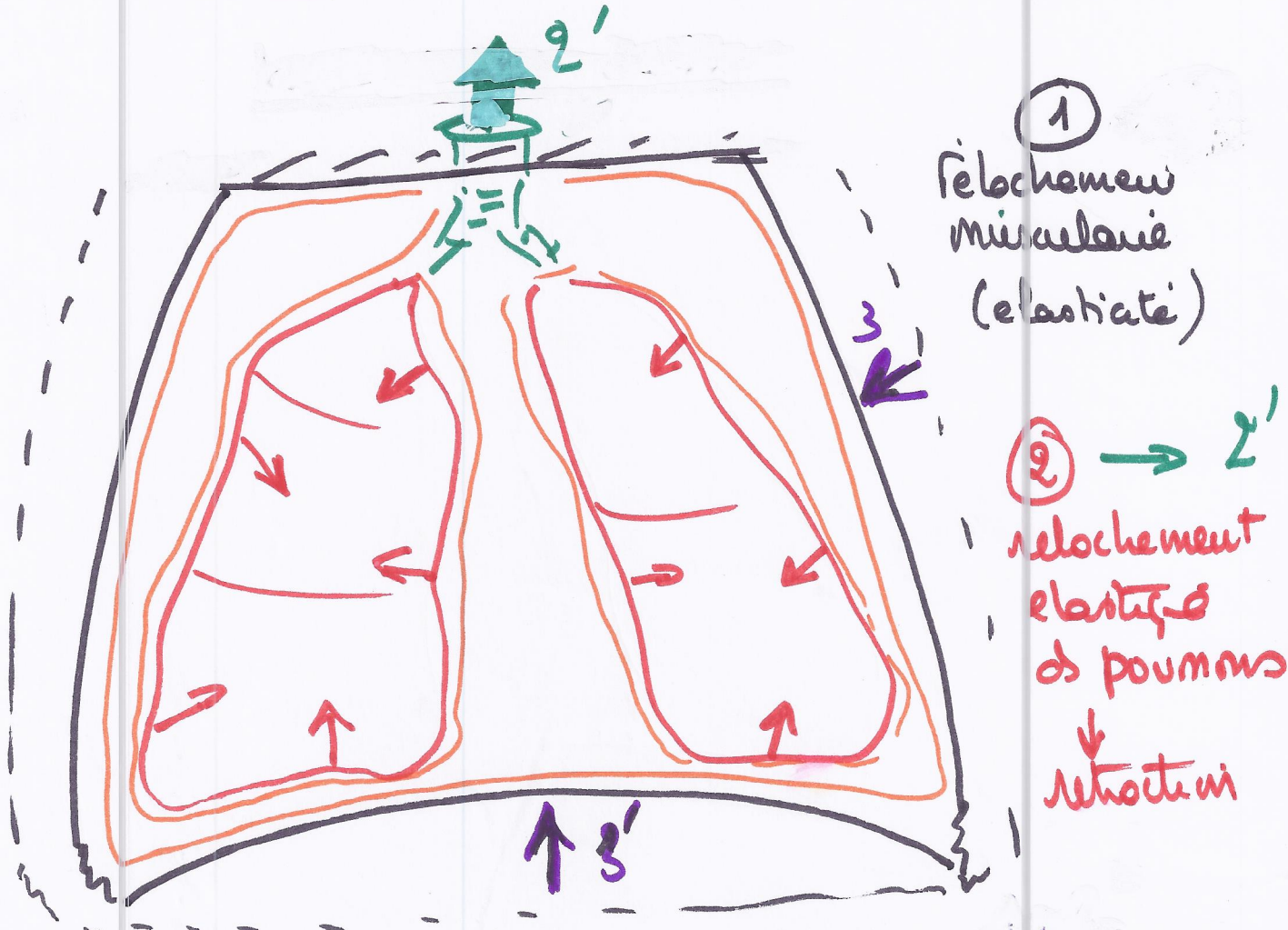
S/V ~ 800

bronchiole terminale  
bronchiole respiratoire  
sac alvéolaire



diaphragme ↓ 1' W muscul + 300cm<sup>3</sup>

inspiration active

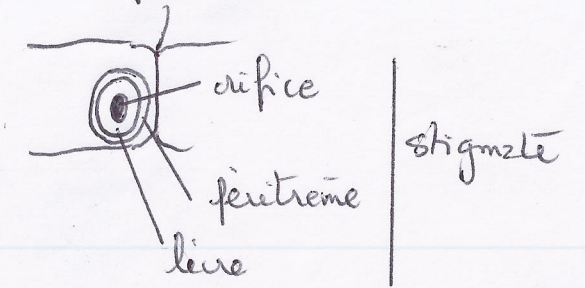
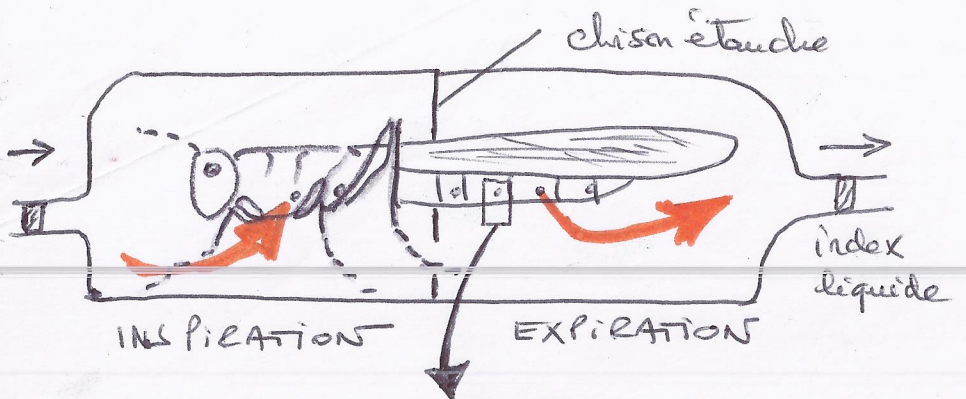


→ 3+3' relachement Cote thorac



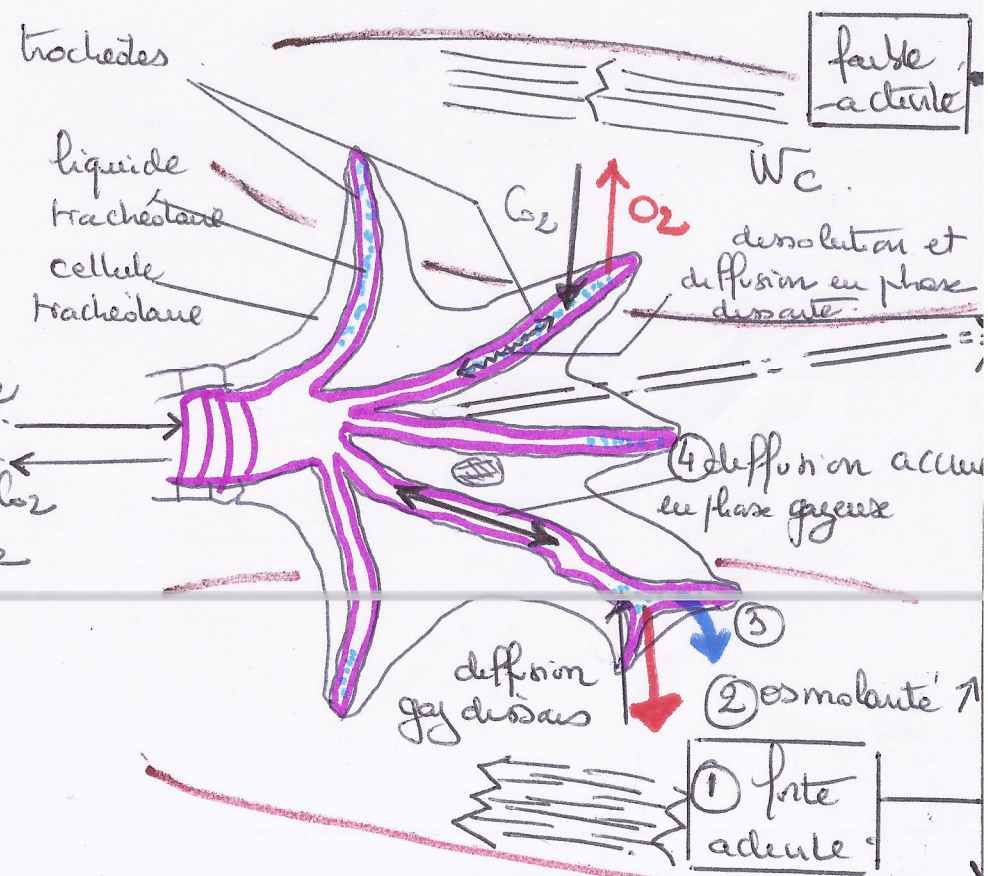
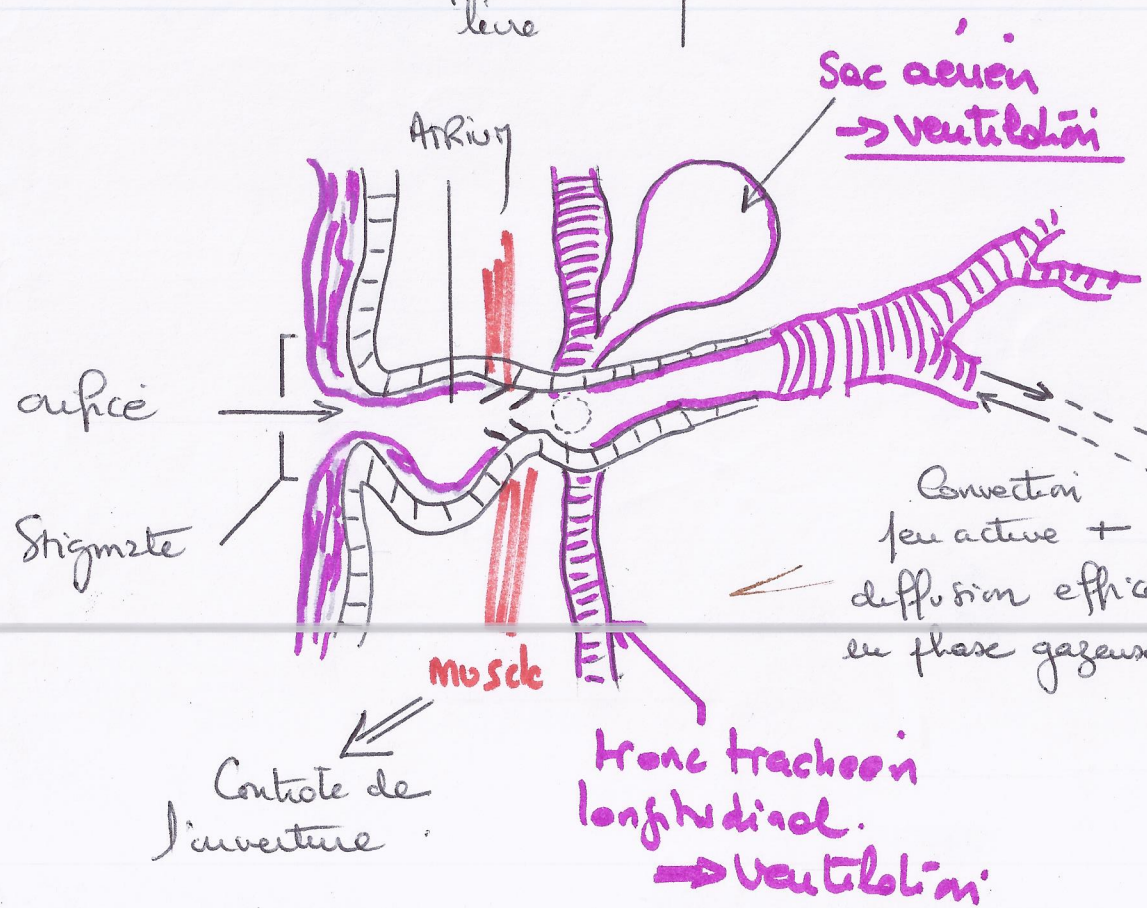






Surface | invaginée  
étendue  
fine.

Echanges G. Resp. <sup>u</sup> Sans relai du M. interneur<sup>a</sup>



Convection  
passive +  
diffusion efficace  
en phase gazeuse