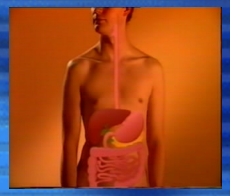
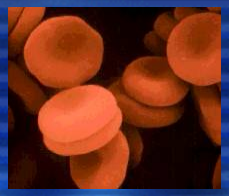
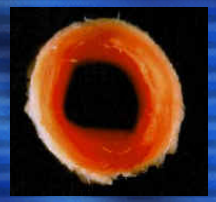
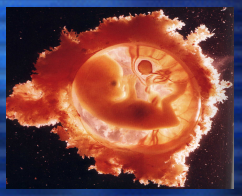
Le monde vivant animal

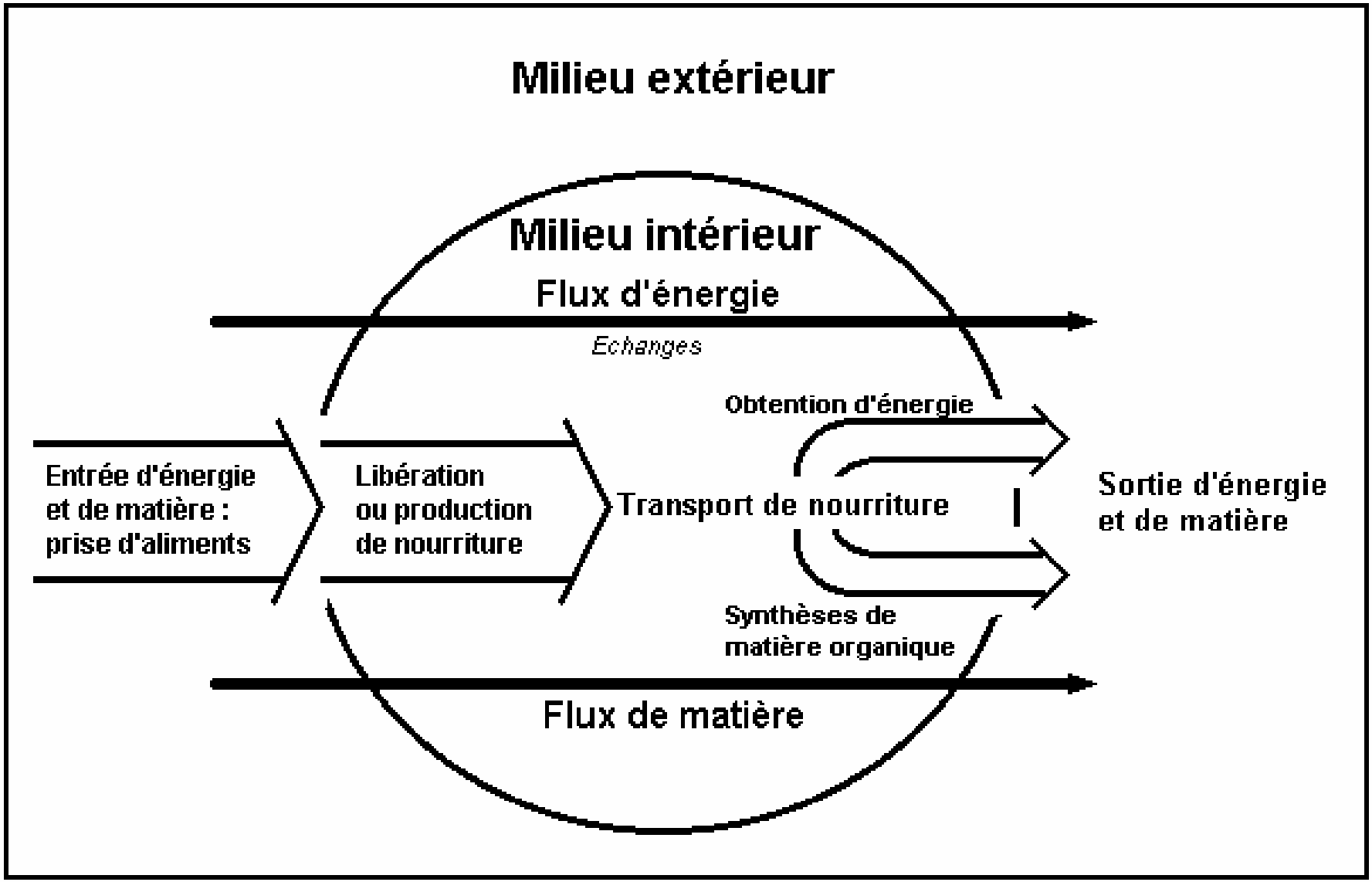





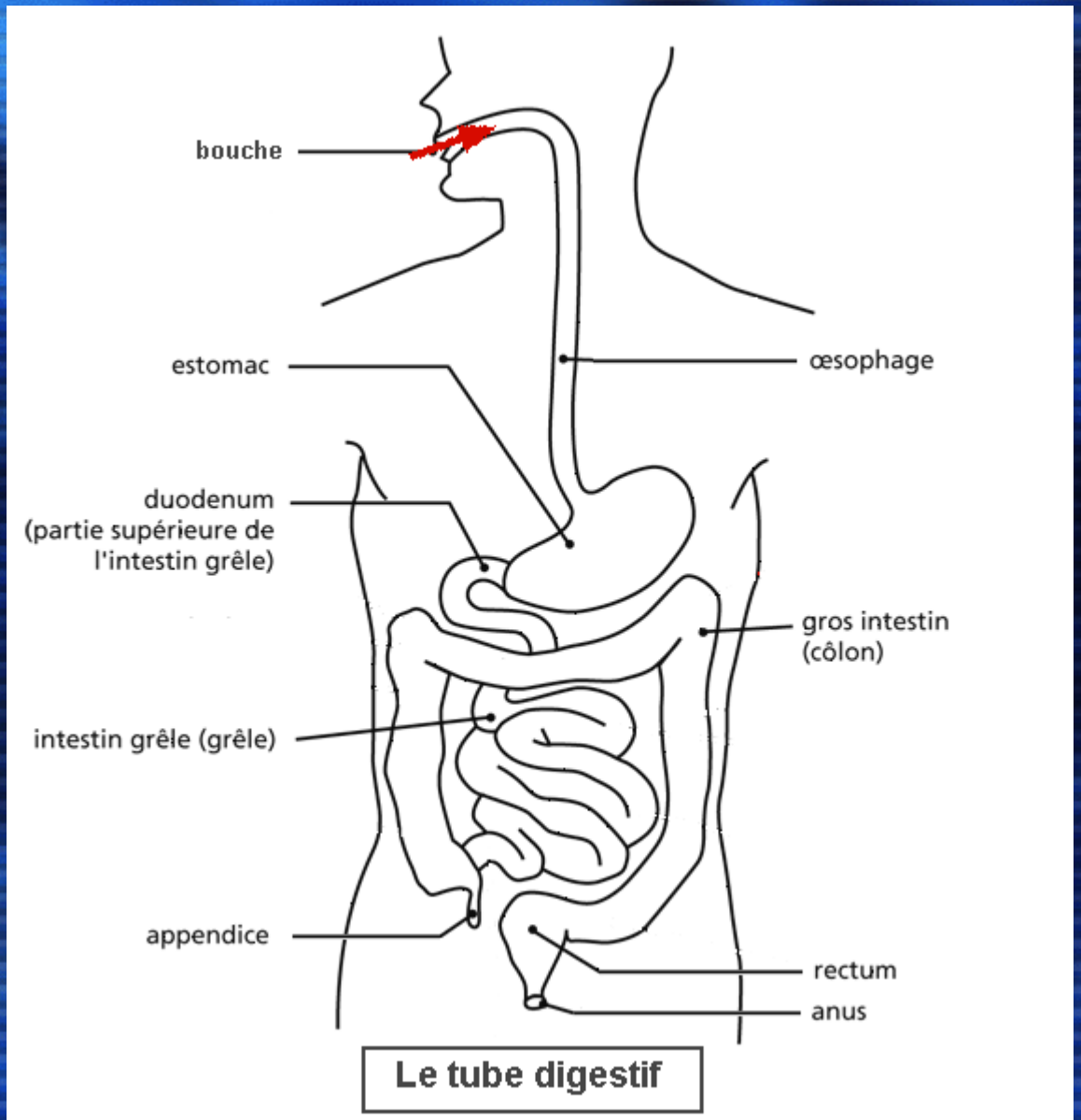


Partie I : Les fonctions de nutrition chez les animaux

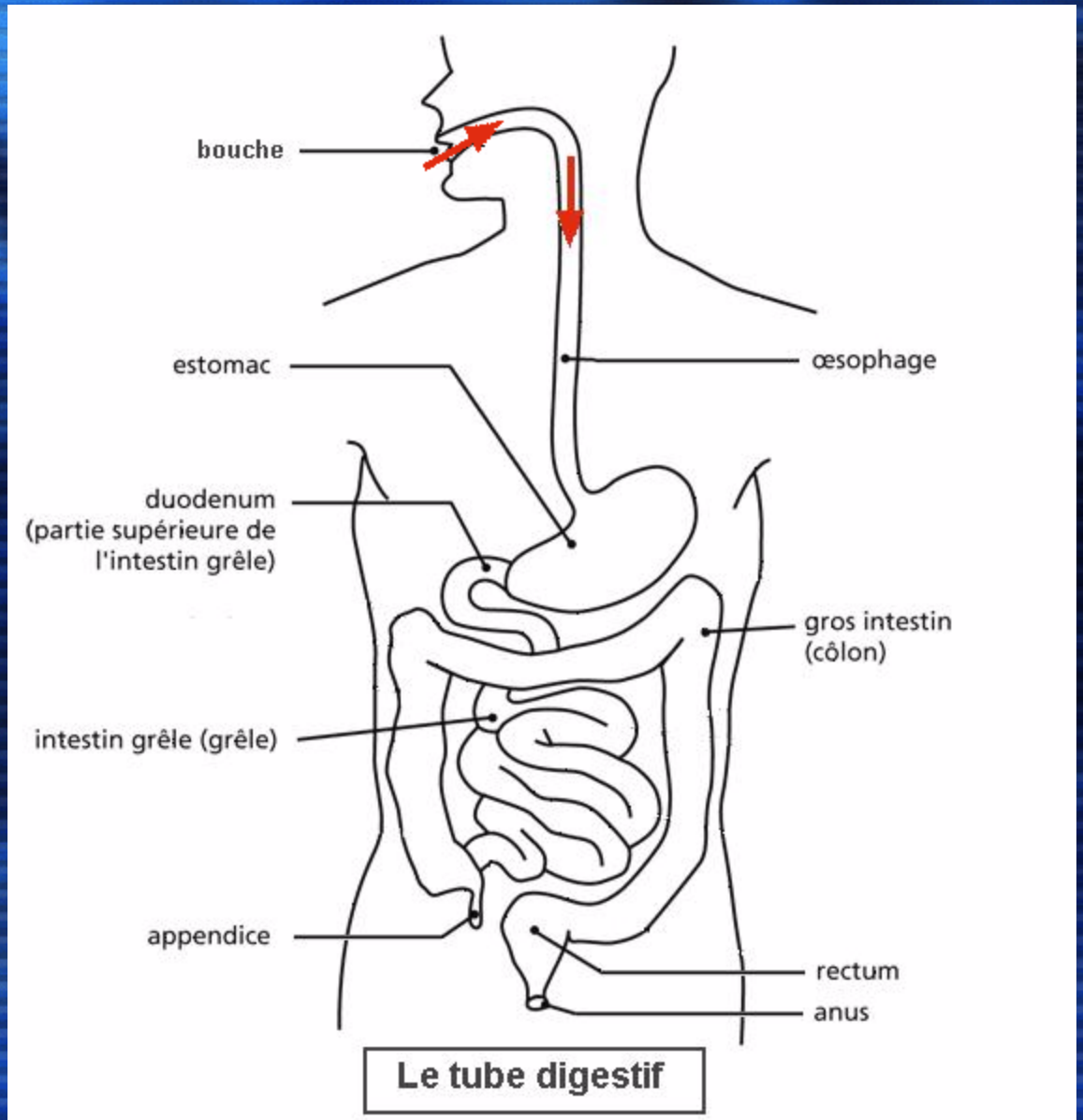
Chapitre 1 :
Nutrition et aliments


Milieu extérieur
Milieu intérieur
Flux d'énergie
Echanges
Obtention d'énergie
Entrée d'énergie et de matière : prise d'aliments
Libération ou production de nourriture
Transport de nourriture
Sortie d'énergie et de matière
Synthèses de matière organique
Flux de matière

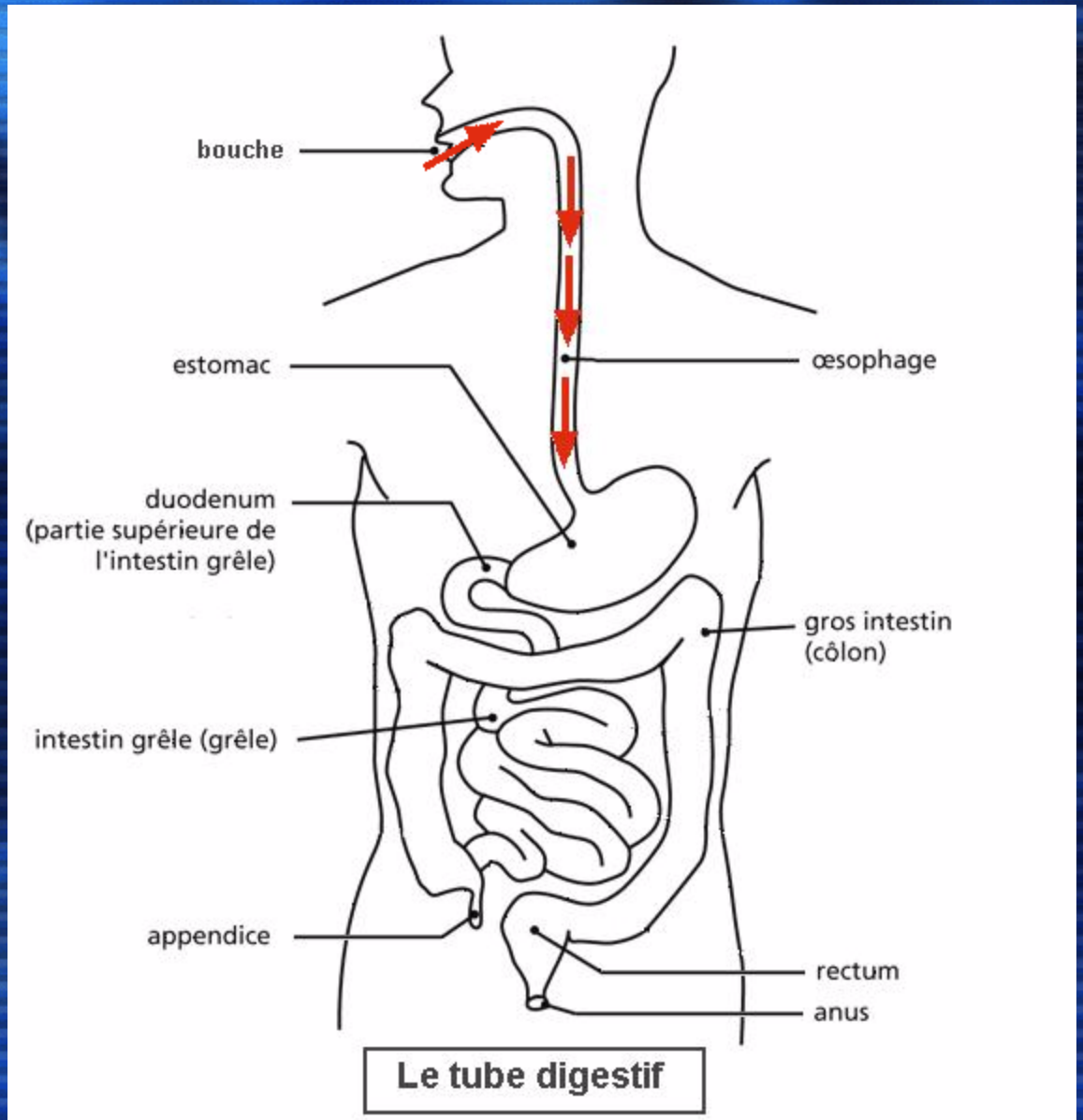
Chapitre 2 :
Digestion et absorption



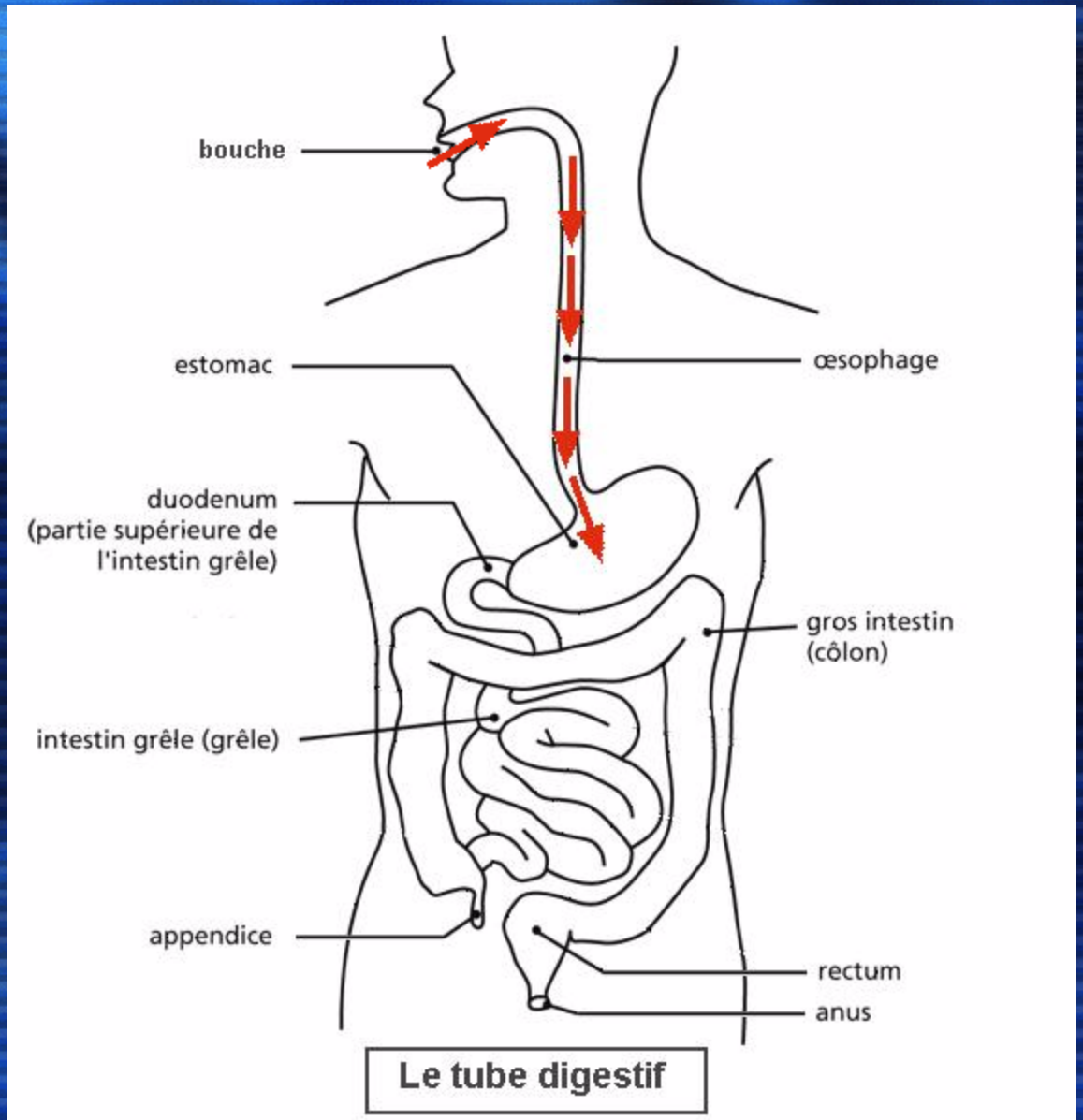
Le tube digestif



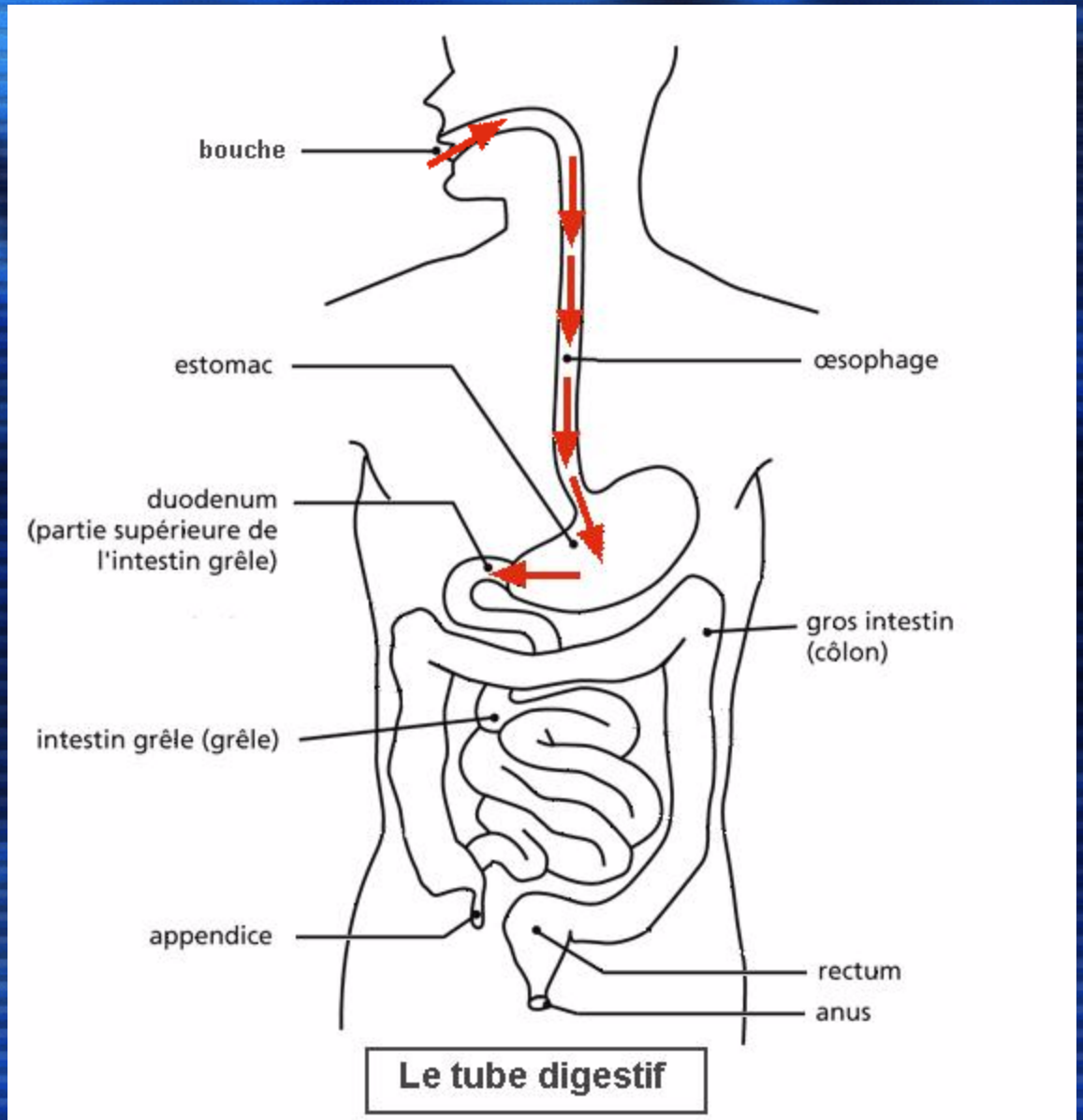
Le tube digestif



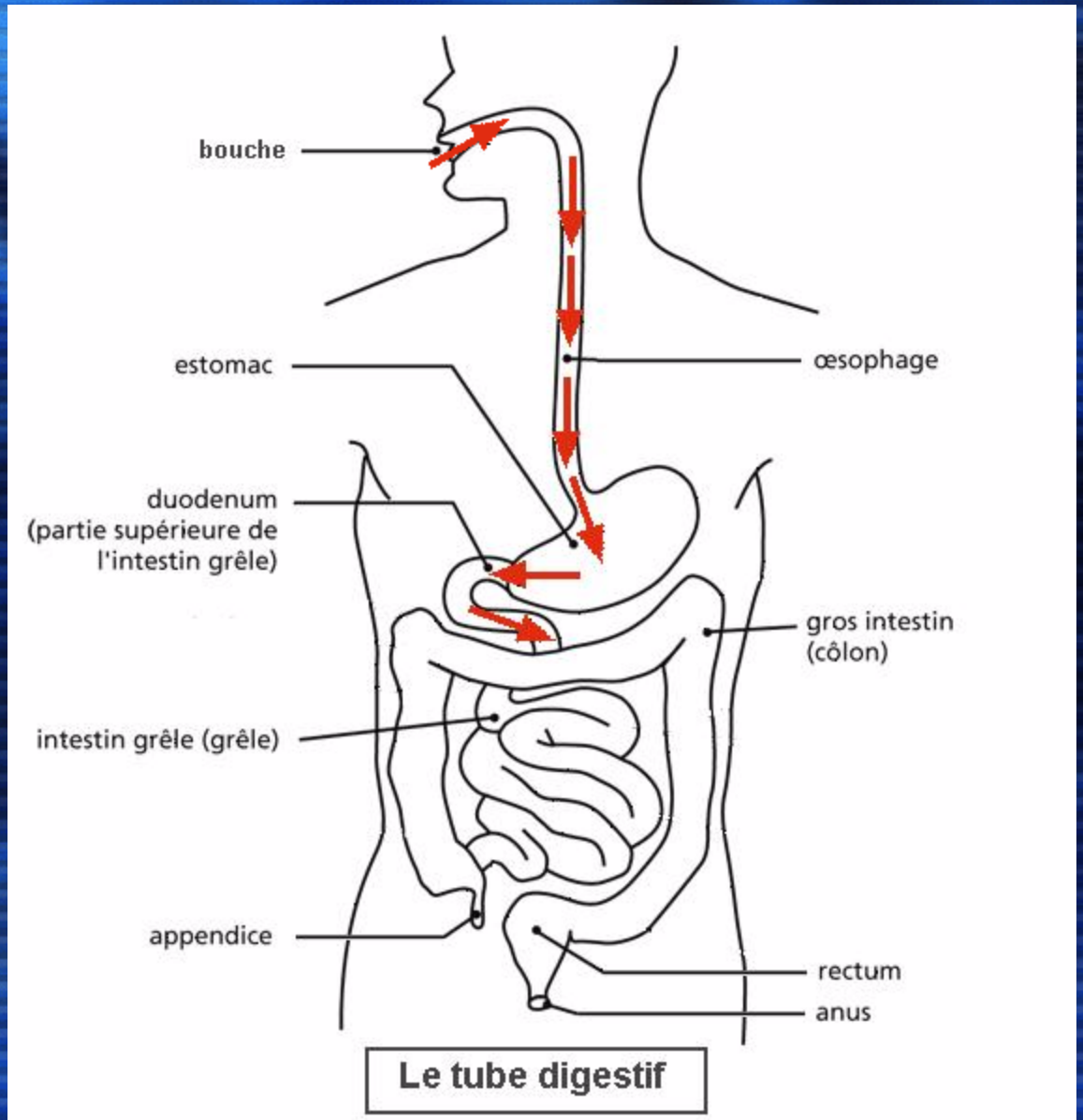
Le tube digestif



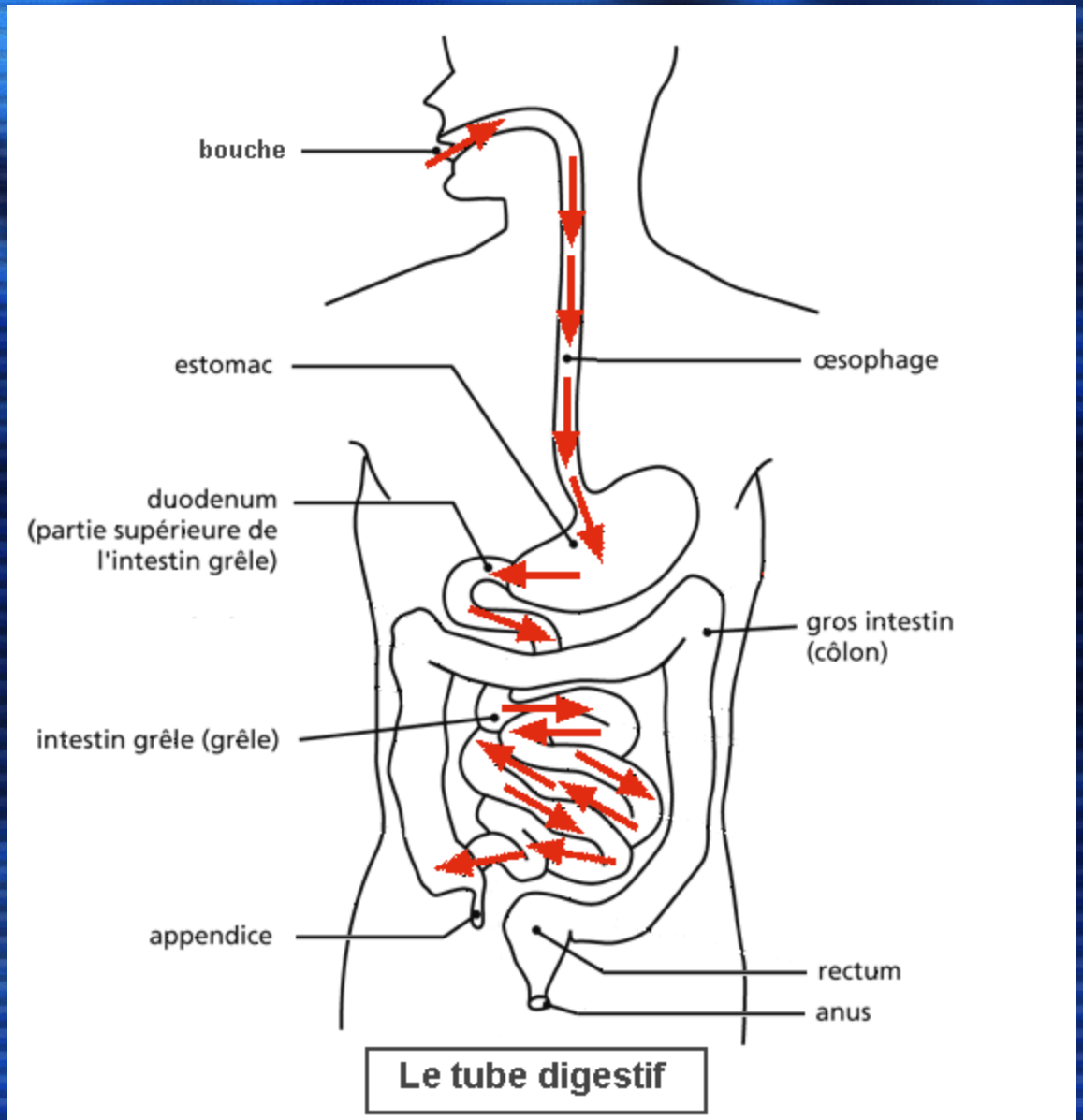
Le tube digestif



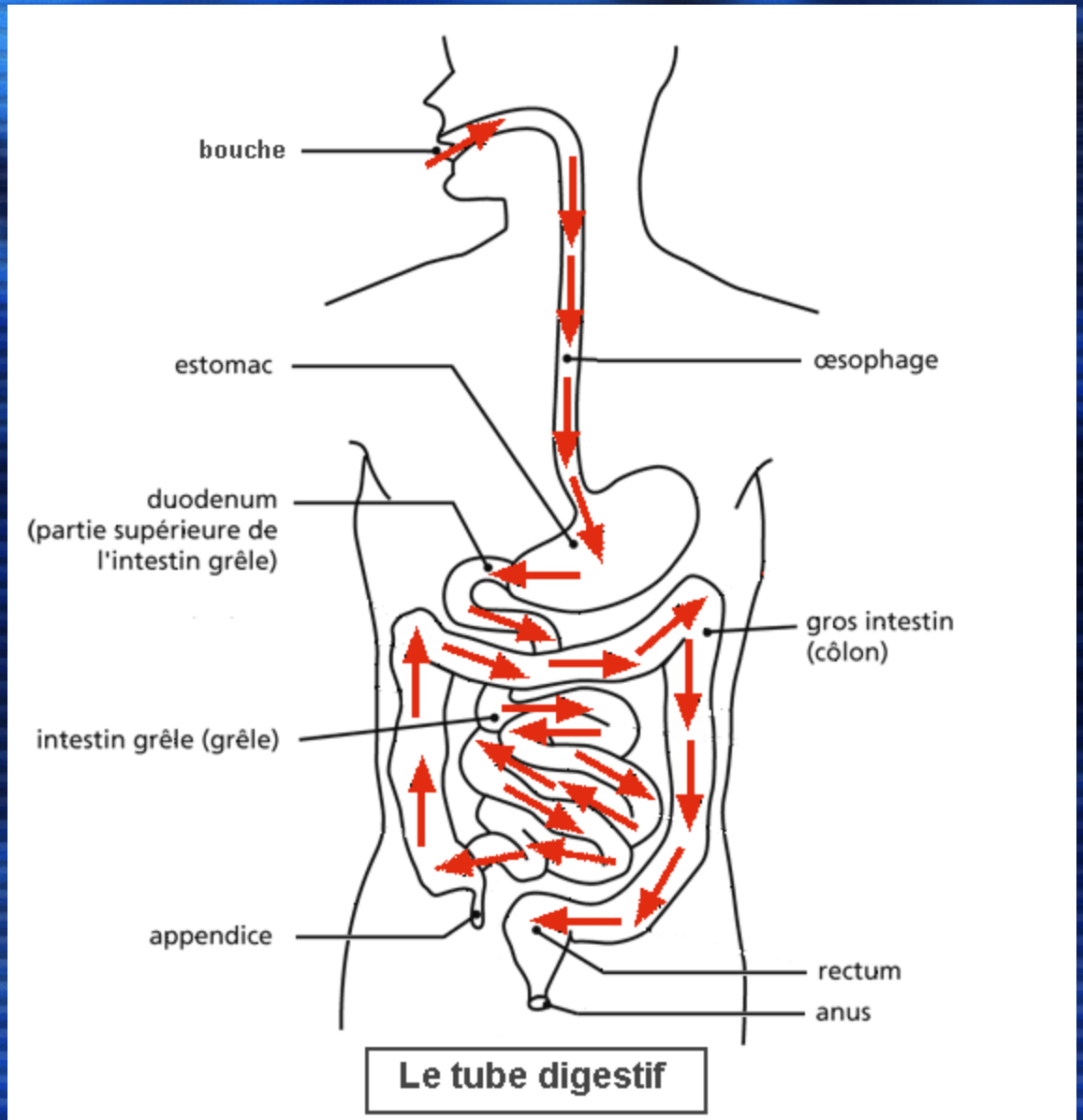
Le tube digestif



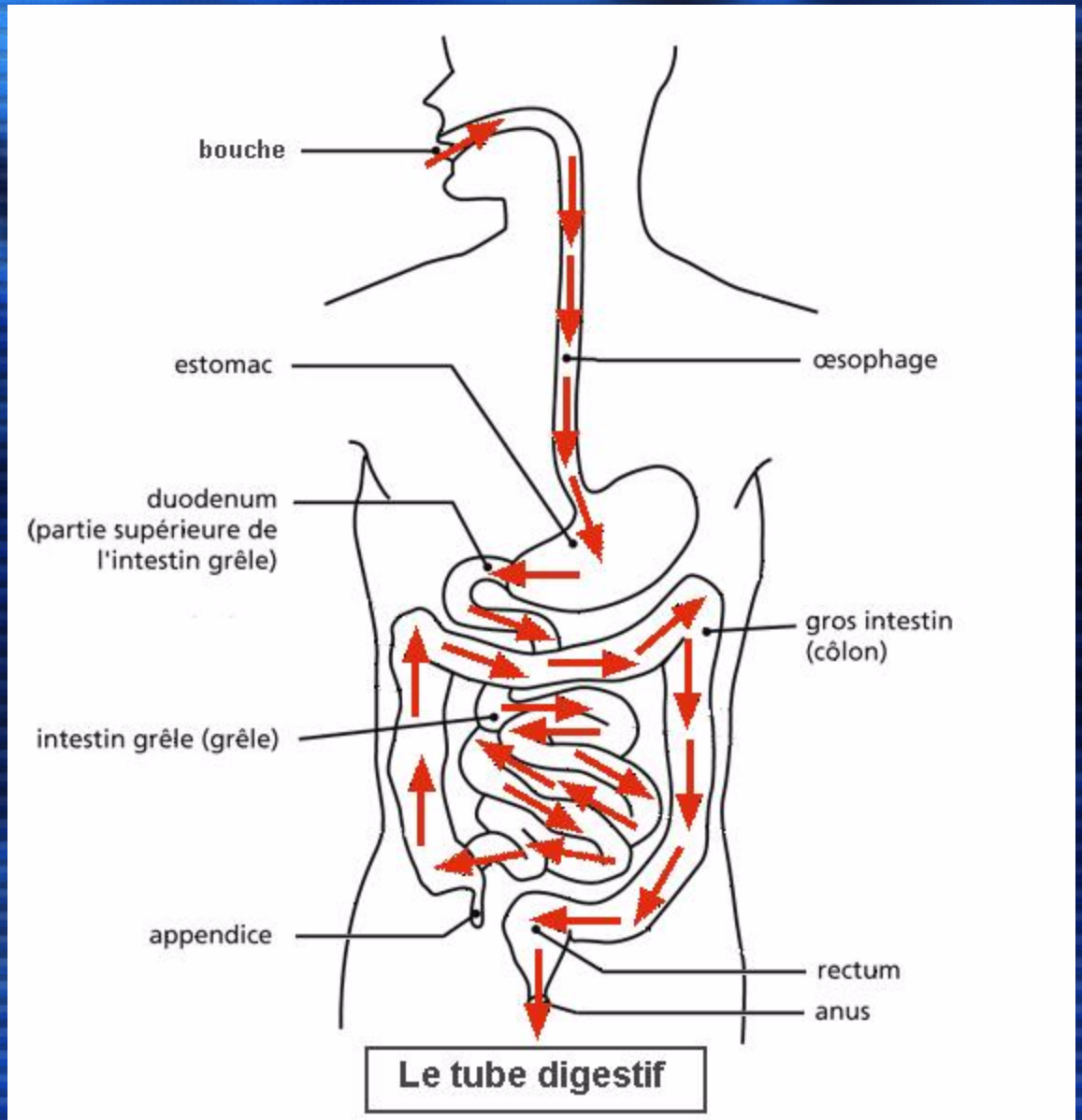
Le tube digestif

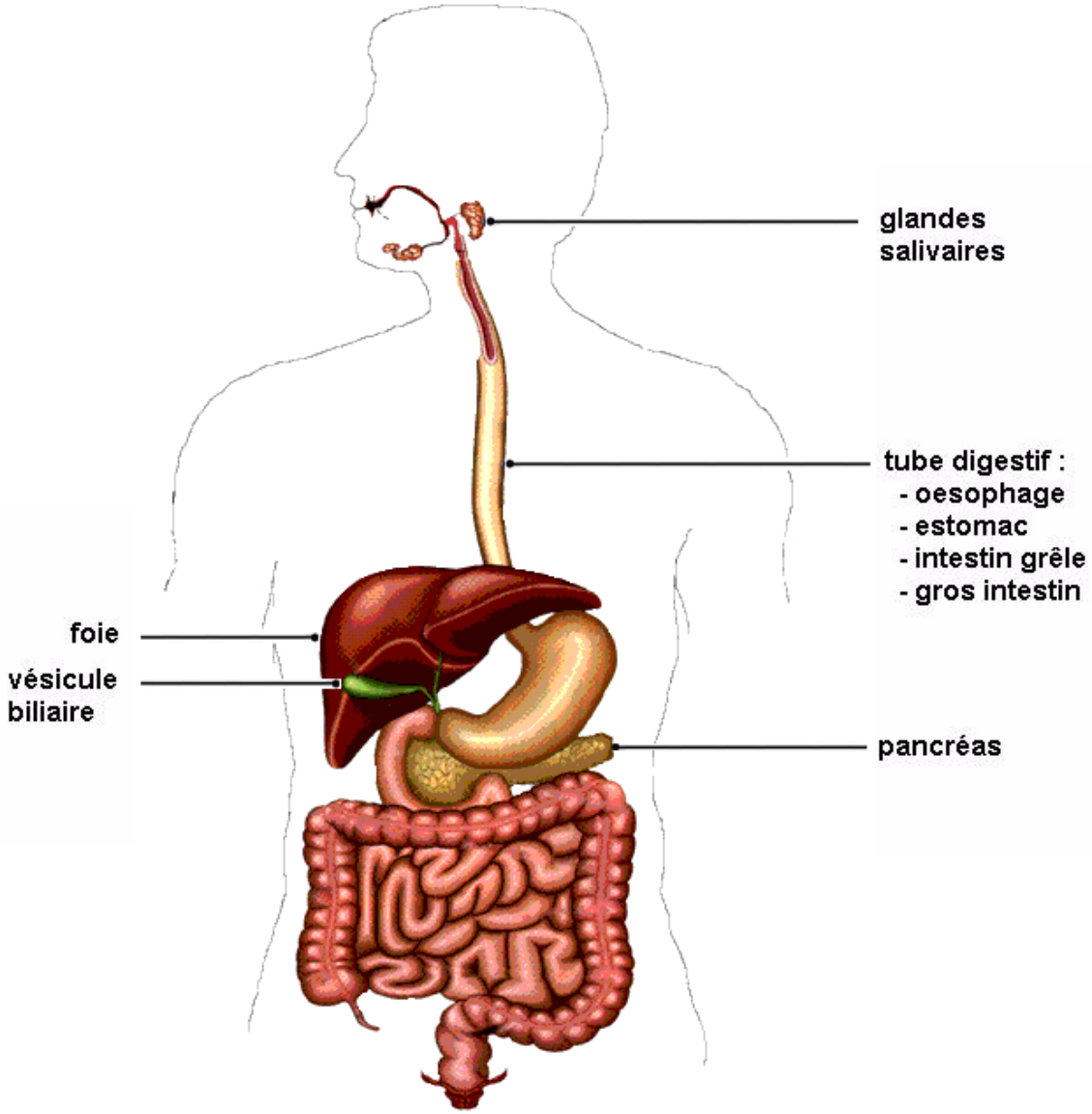


Le tube digestif

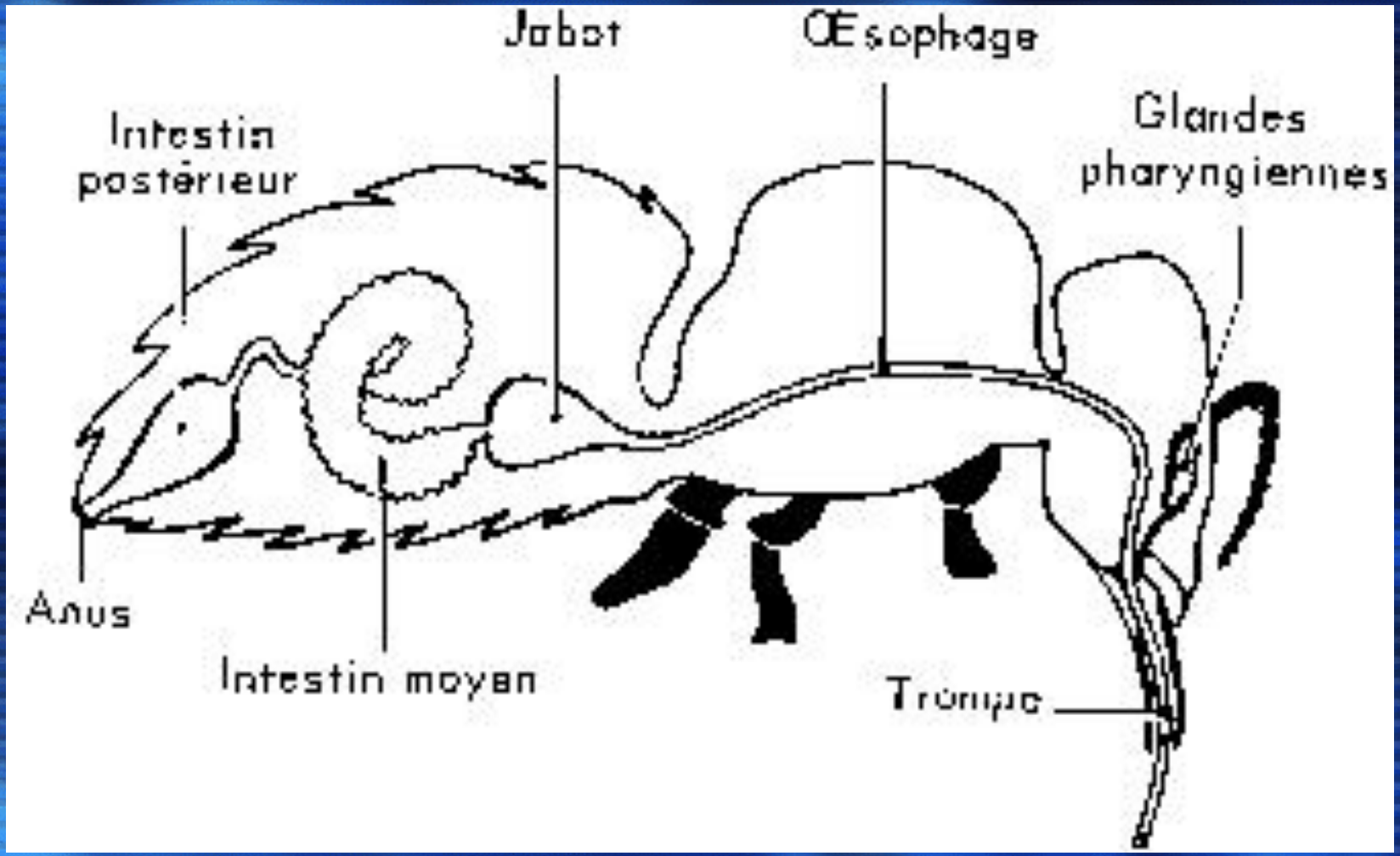


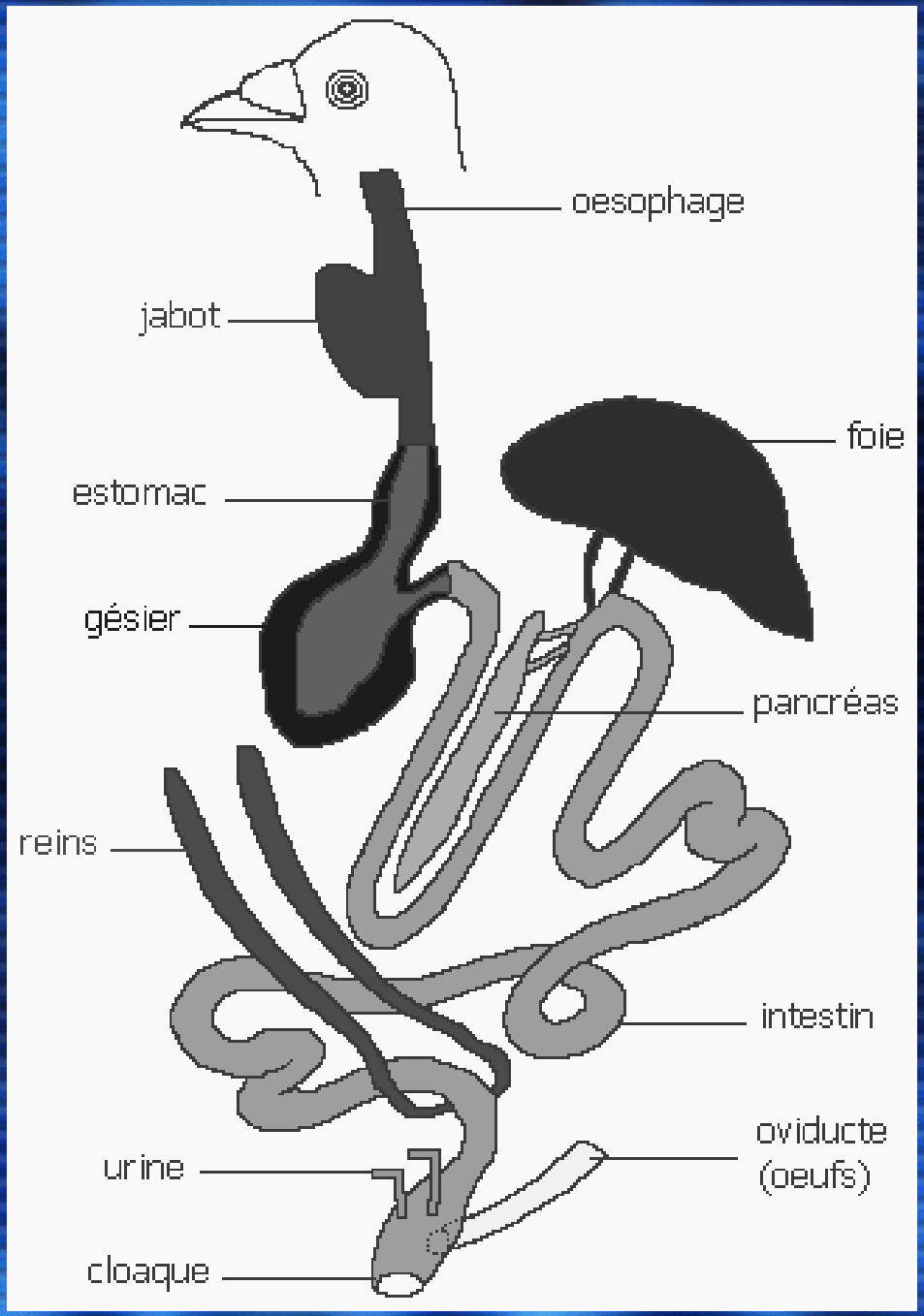
Le tube digestif

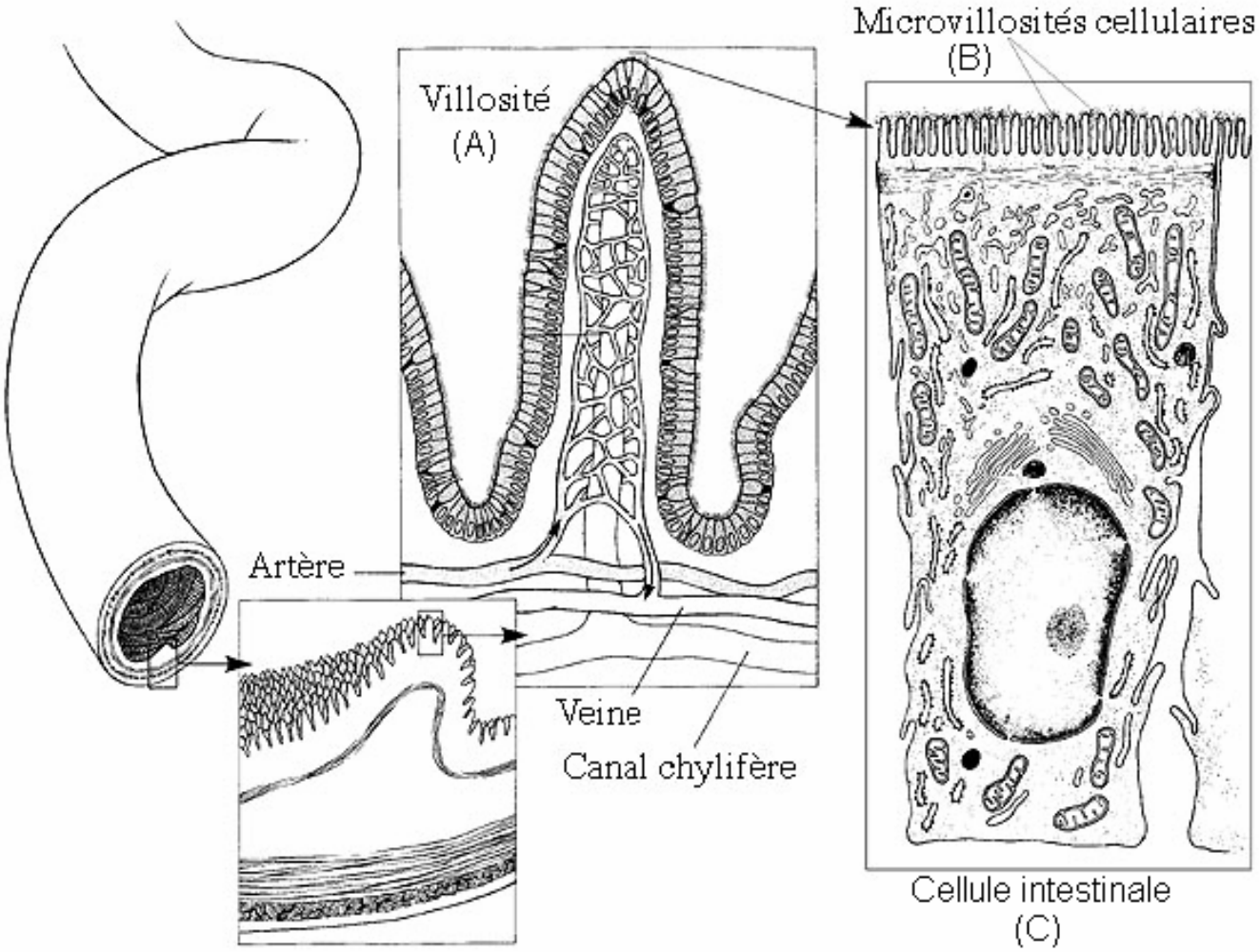

bouche
estomac
œsophage
duodenum
(partie supérieure de
l'intestin grêle)
gros intestin
(côlon)
intestin grêle (grêle)
appendice
rectum
anus
Le tube digestif



L'appareil digestif


Jabot
Œsophage
Intestin postérieur
Glandes pharyngiennes
Anus
Intestin moyen
Trompe


oesophage
jabot
foie
estomac
gésier
pancréas
reins
intestin
oviducte
(oeufs)
urine
cloaque



Les "super repli" de la paroi de l'intestin grêle : notions de villosité et microvillosité intestinale

Chapitre 3 :
La respiration

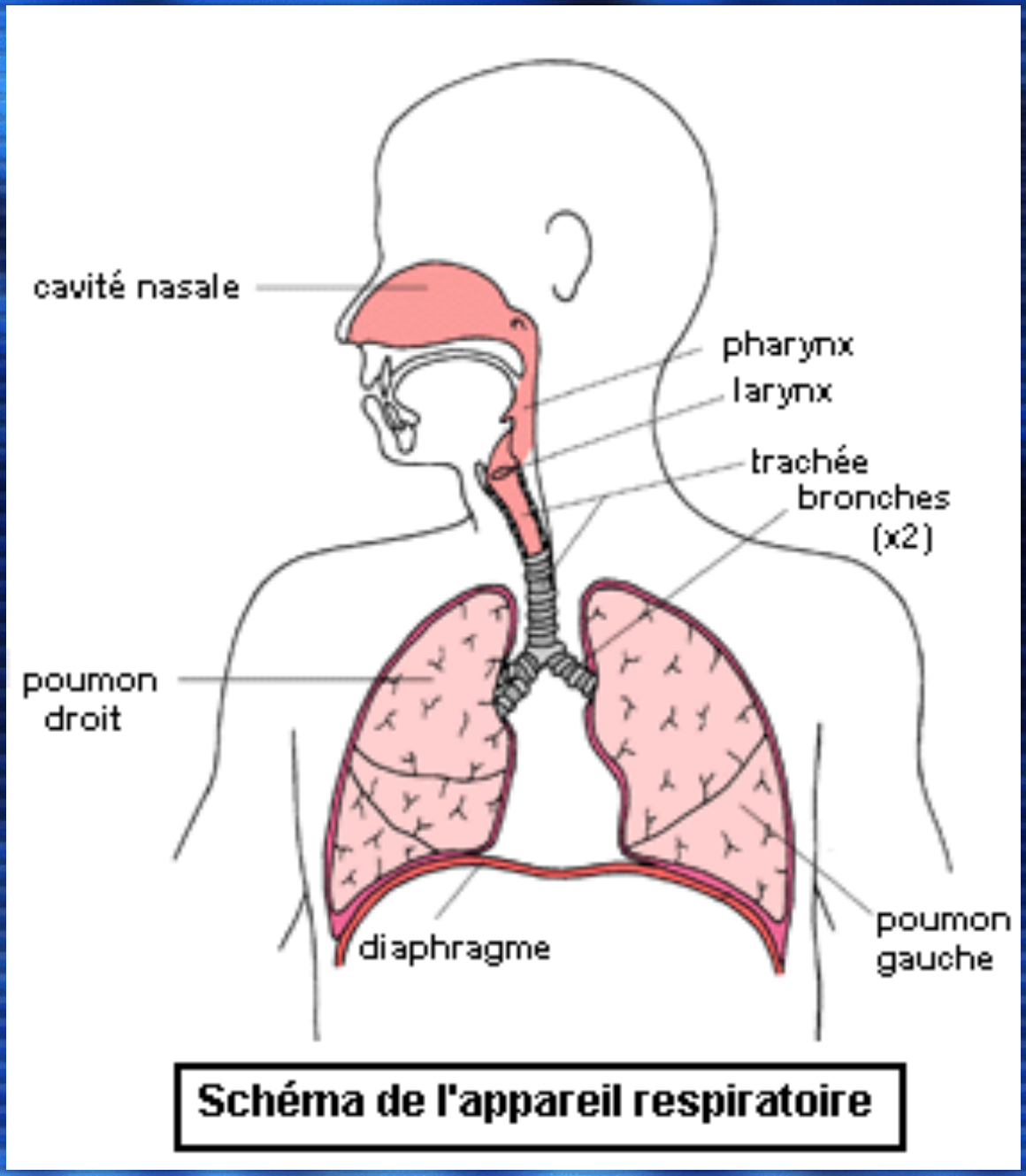
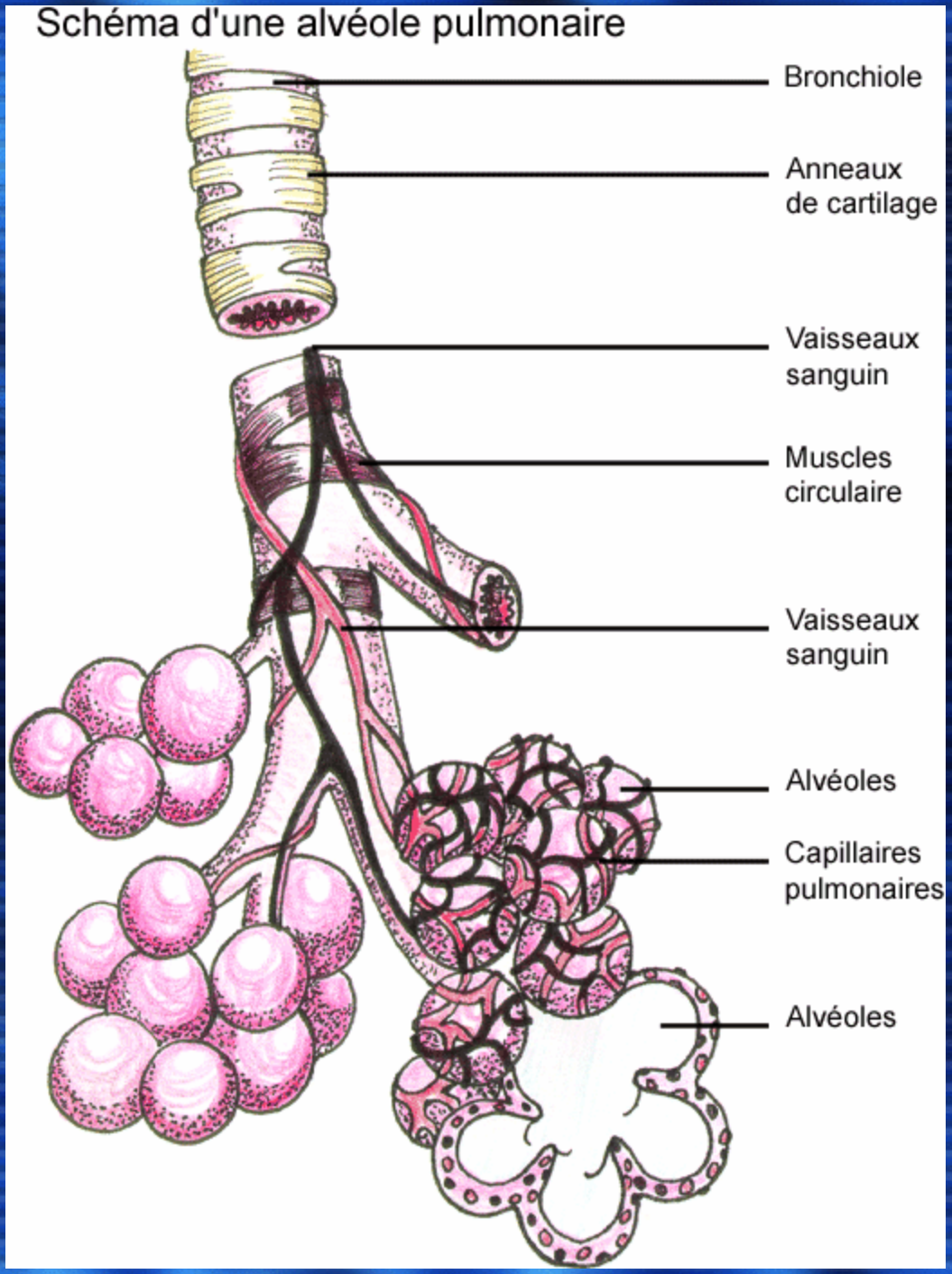
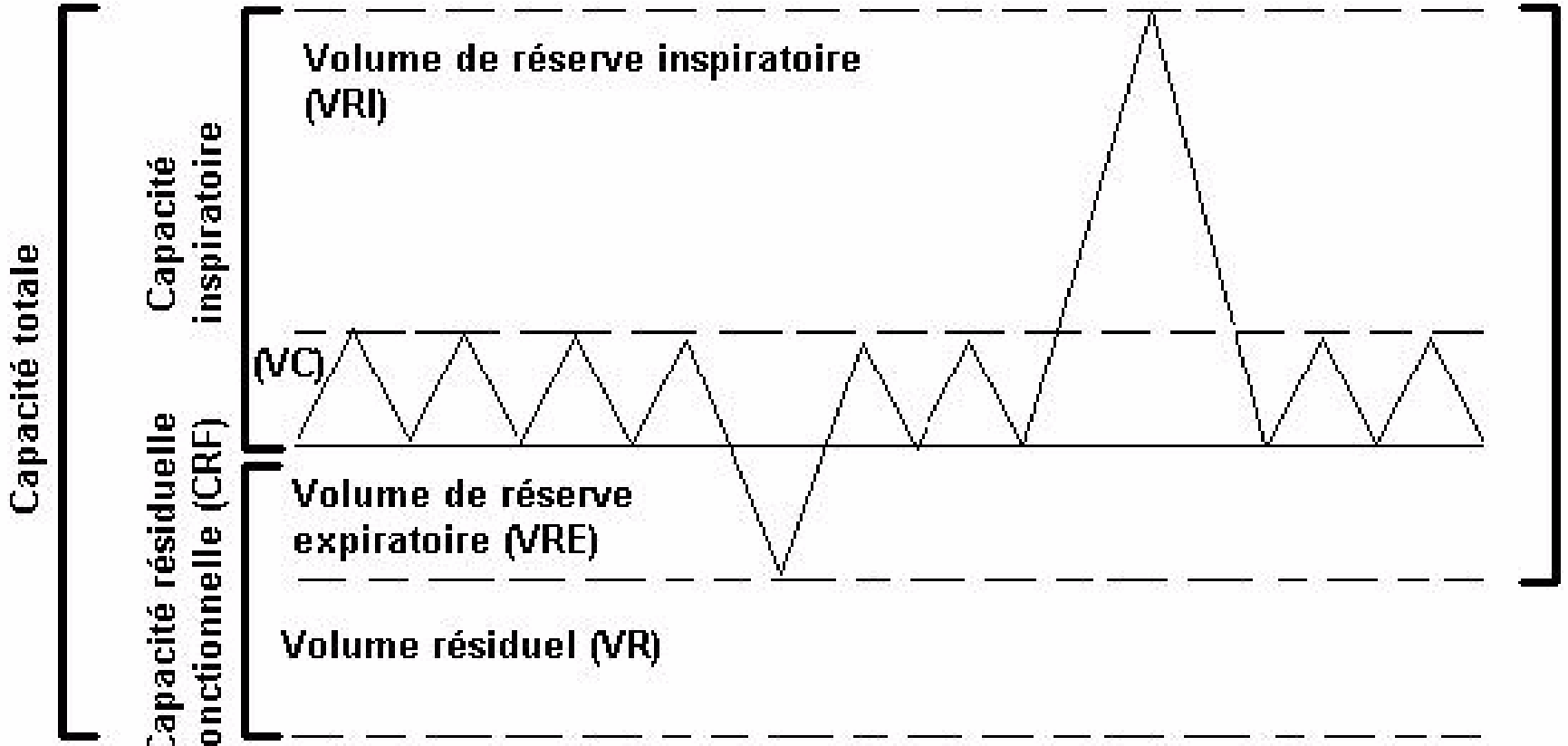


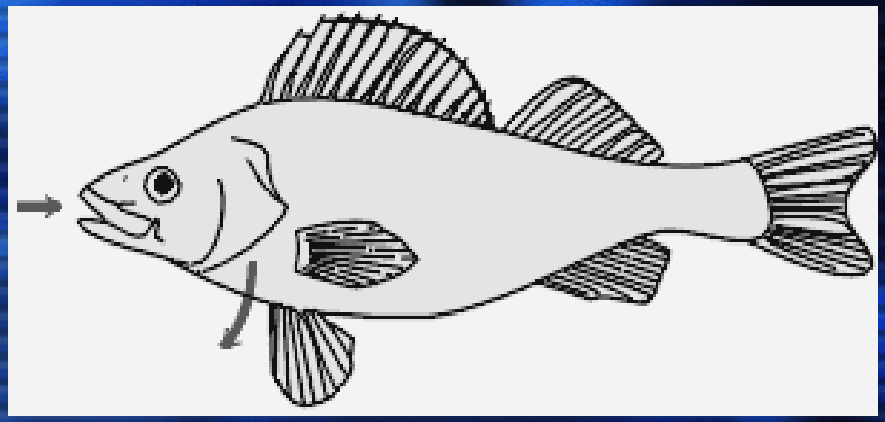
Schéma de l'appareil respiratoire

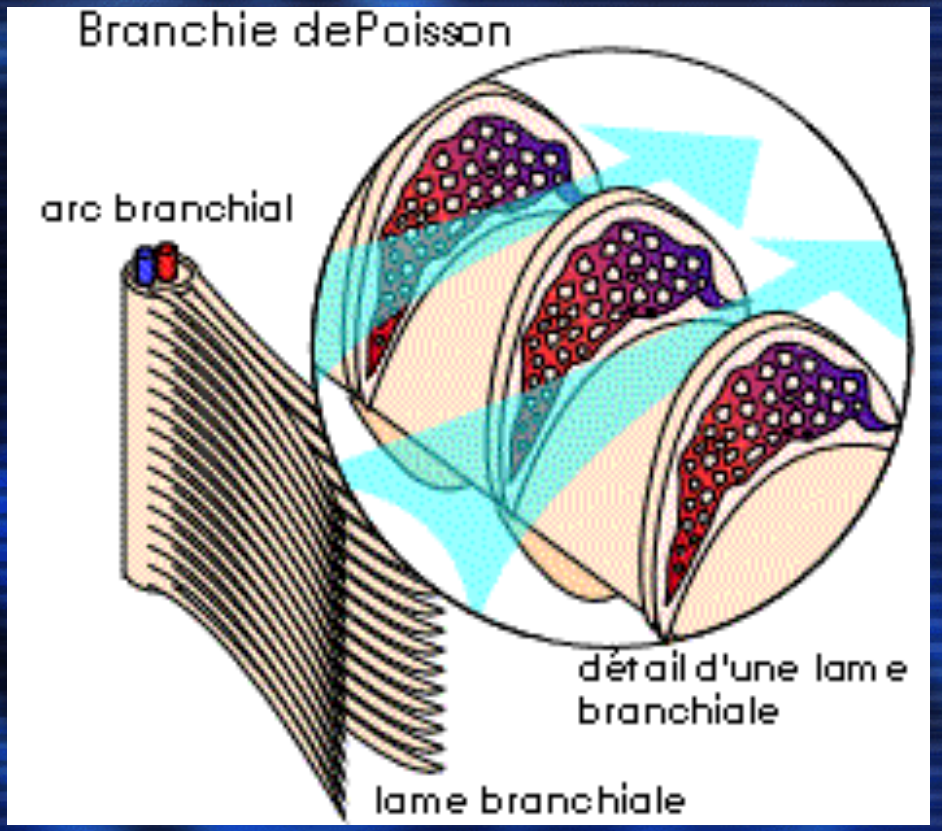
Schéma d'une alvéole pulmonaire

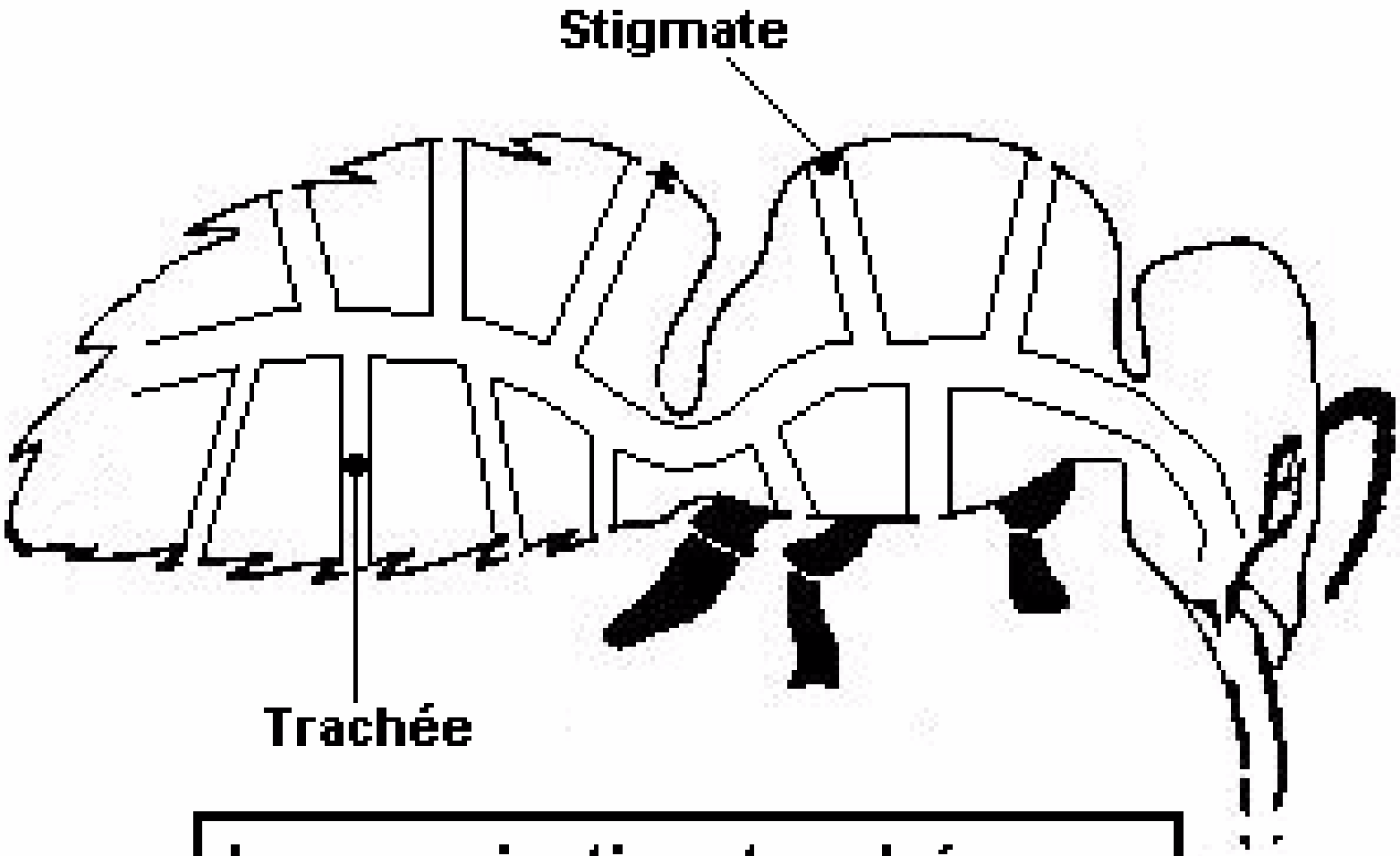




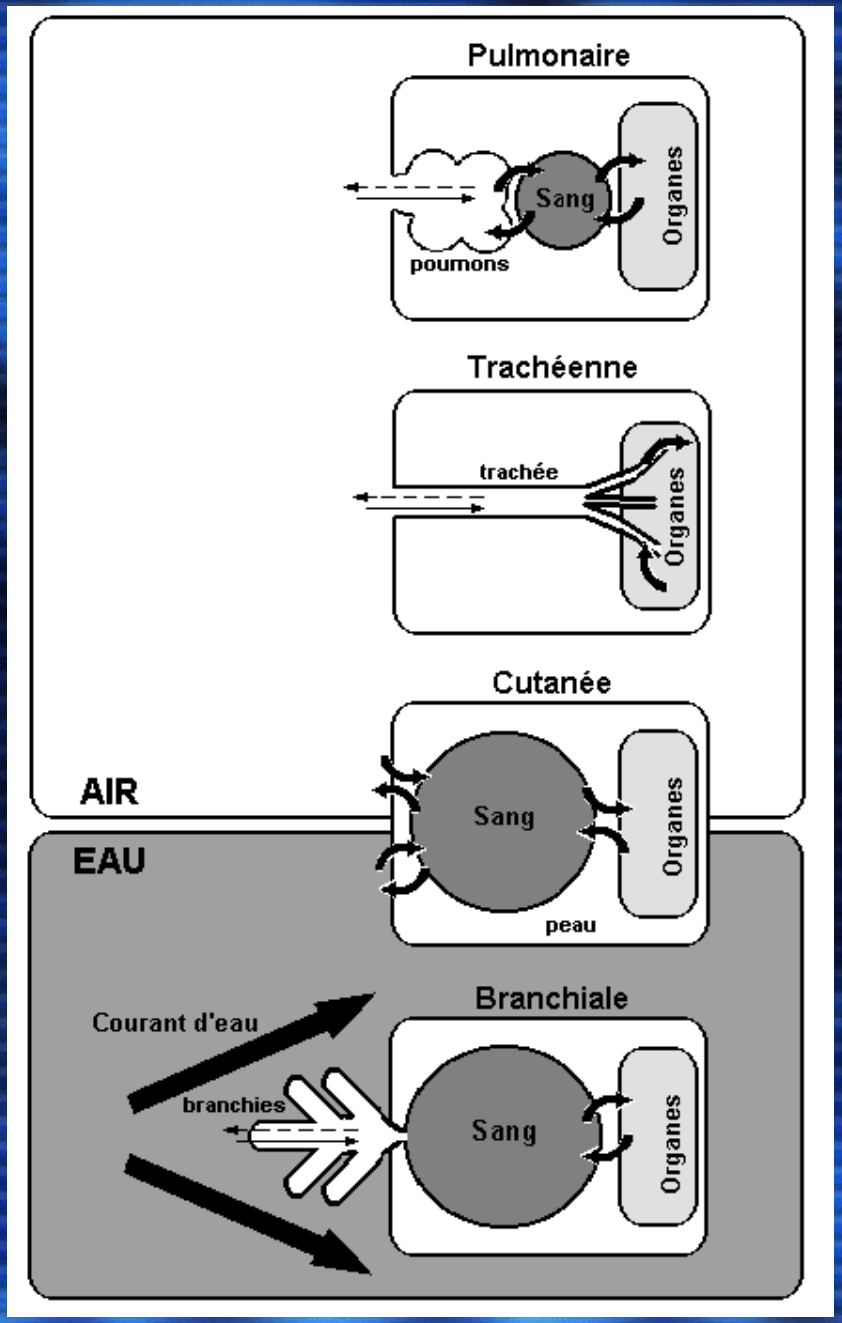
Graphique montrant les différents volumes respiratoires



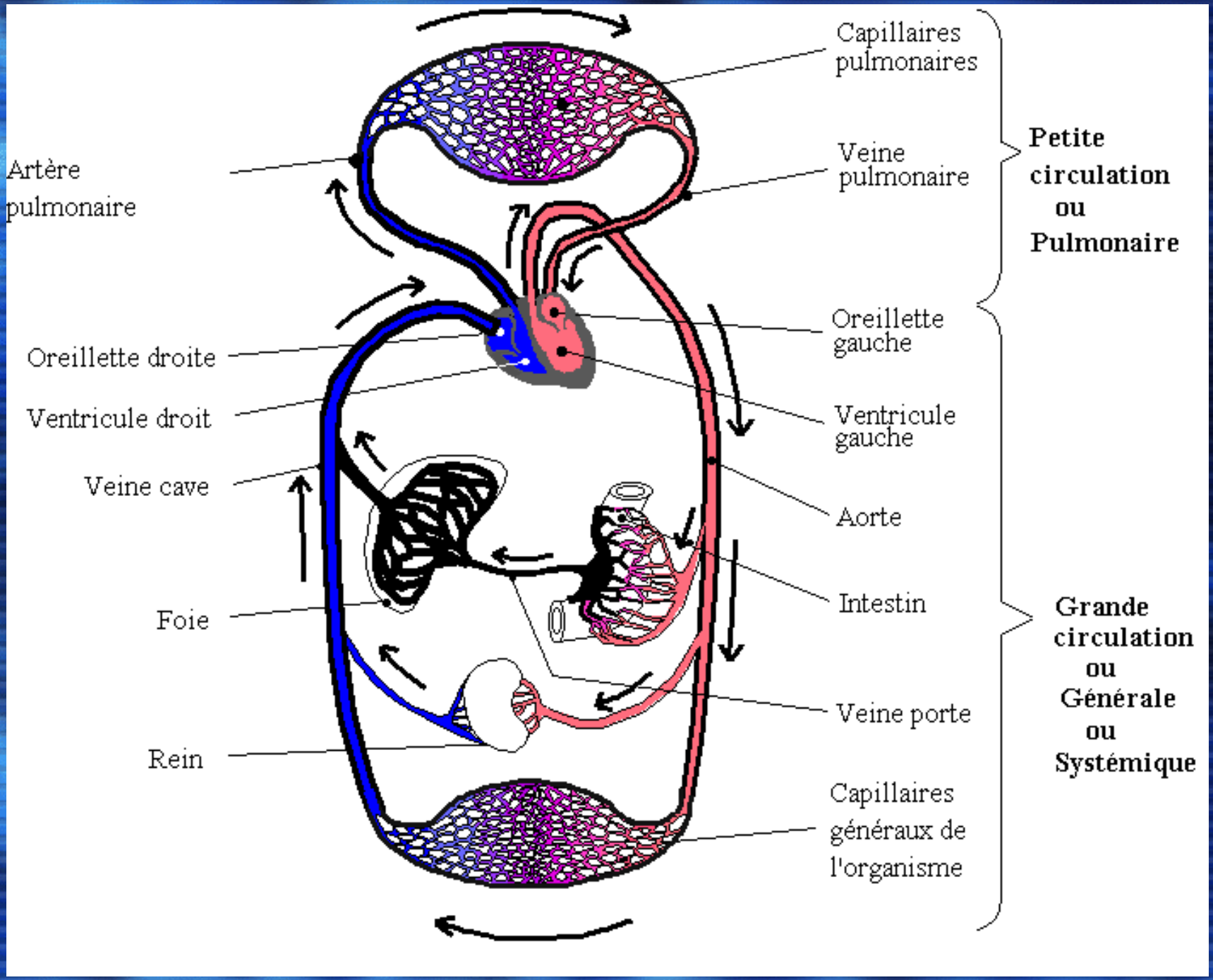

Branchie dePoisson
arc branchial
détail d'une lame branchiale
lame branchiale

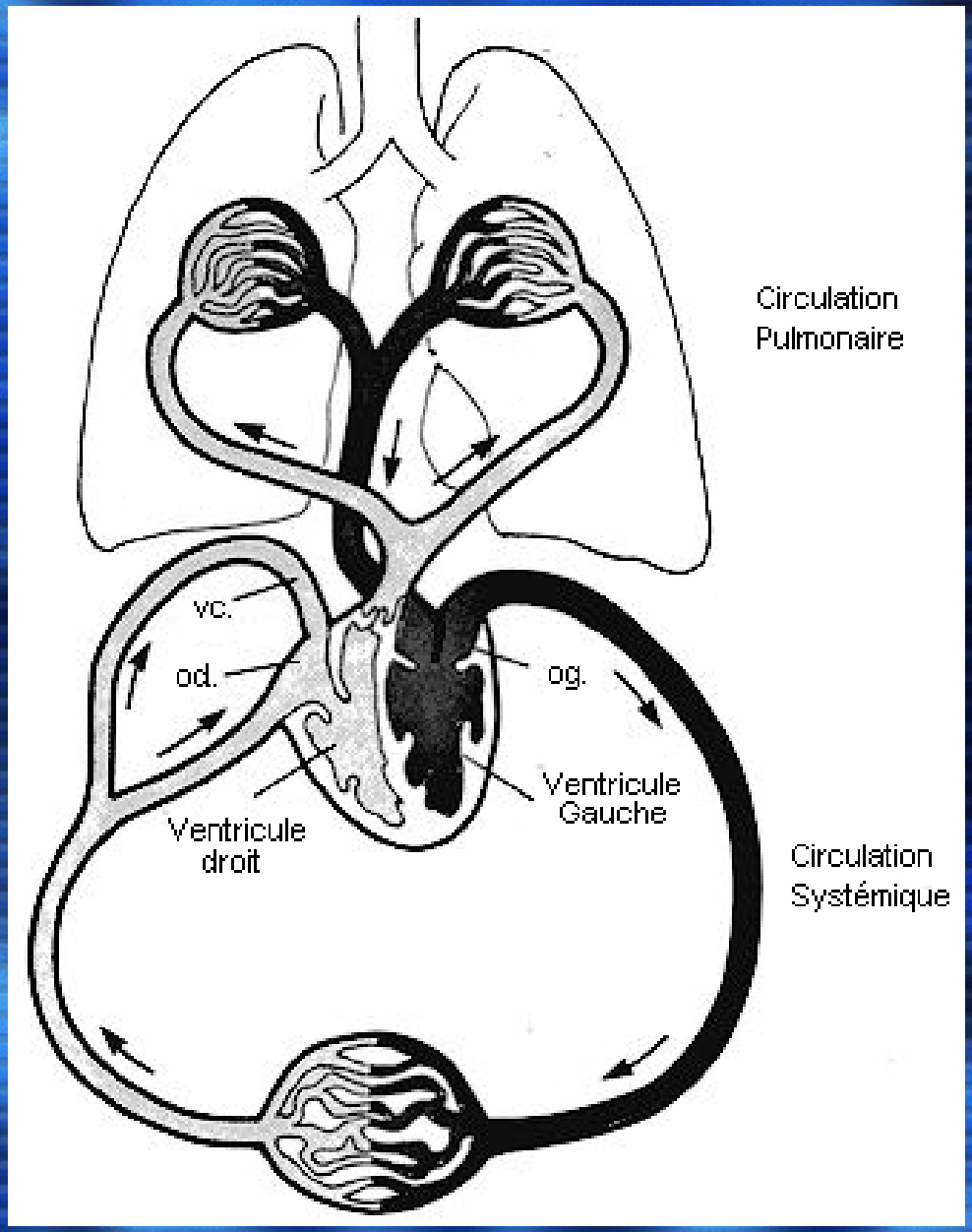


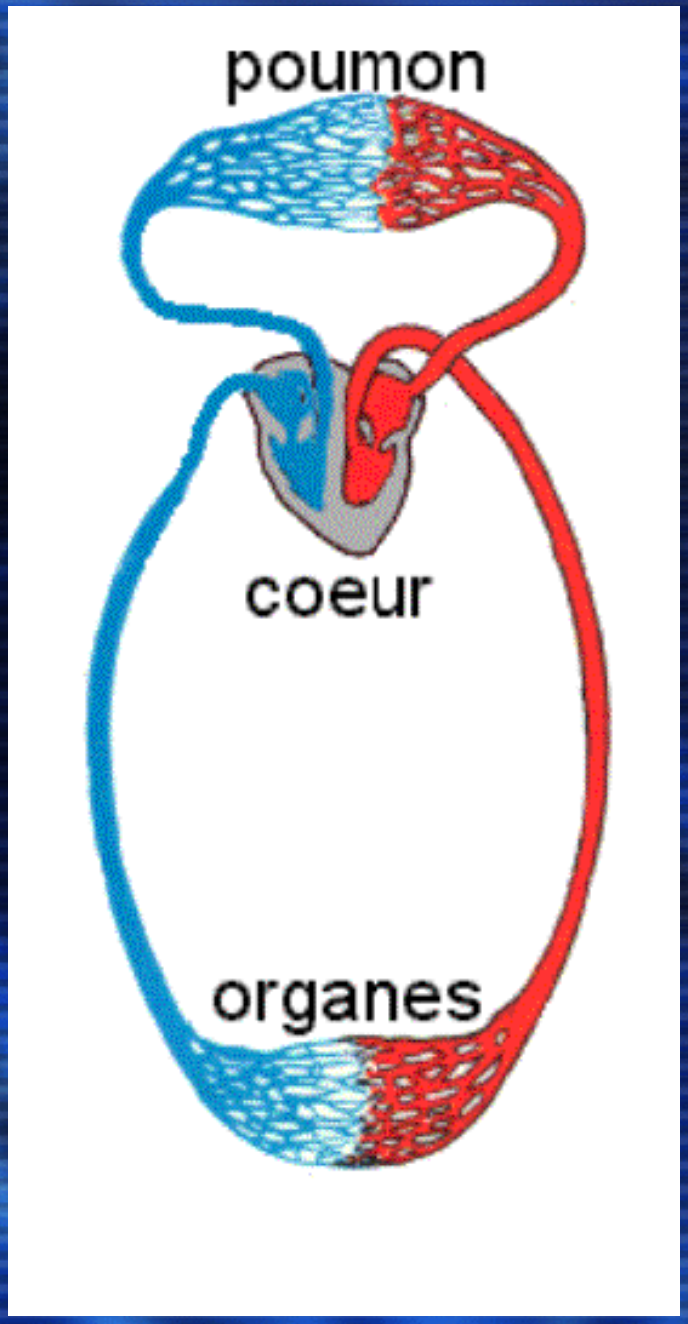
La respiration trachéenne


Pulmonaire
Sang
Organes
poumons
Trachéenne
trachée
Organes
Cutanée
AIR
Sang
Organes
EAU
peau
Branchiale
Courant d'eau
branchies
Sang
Organes

Chapitre 4 :
La circulation


Capillaires pulmonaires
Veine pulmonaire
Artère pulmonaire
Petite circulation ou Pulmonaire
Oreillette gauche
Oreillette droite
Ventricule gauche
Ventricule droit
Veine cave
Aorte
Intestin
Foie
Veine porte
Rein
Capillaires généraux de l'organisme
Grande circulation ou Générale ou Systémique


Circulation
Pulmonaire
vc.
od.
og.
Ventricule
Gauche
Ventricule
droit
Circulation
Systémique


poumon
coeur
organes

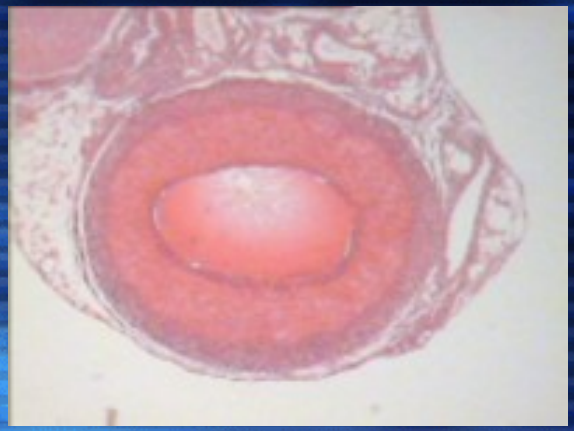
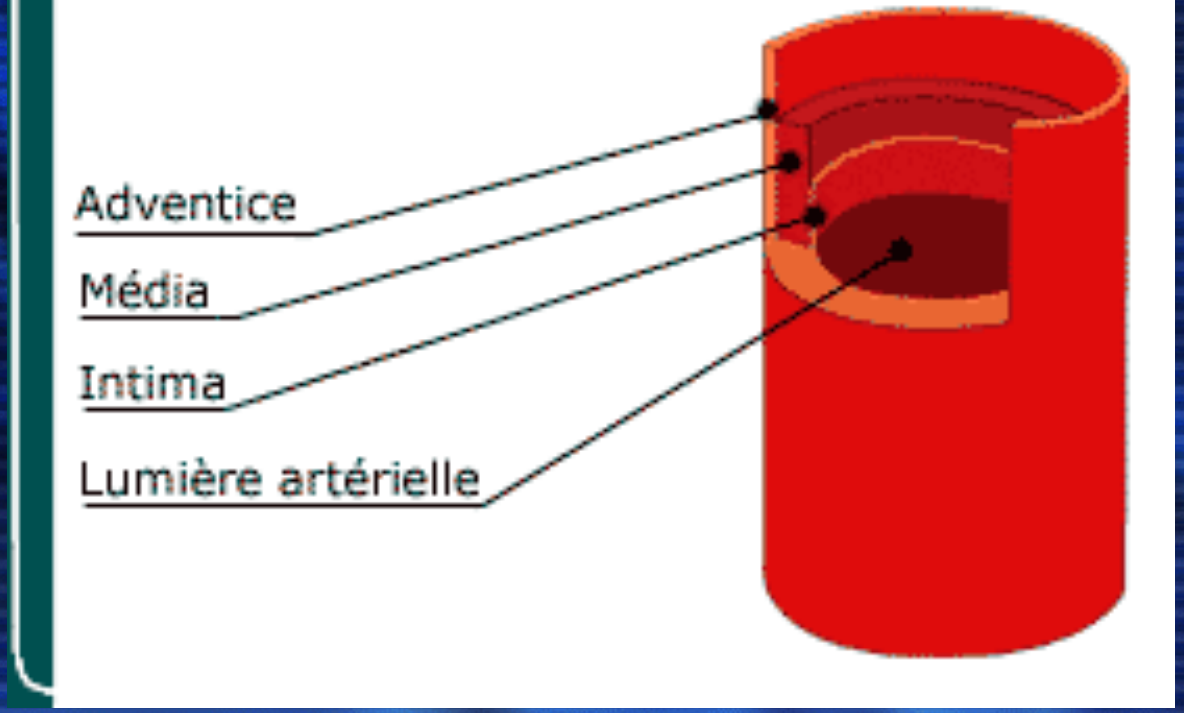
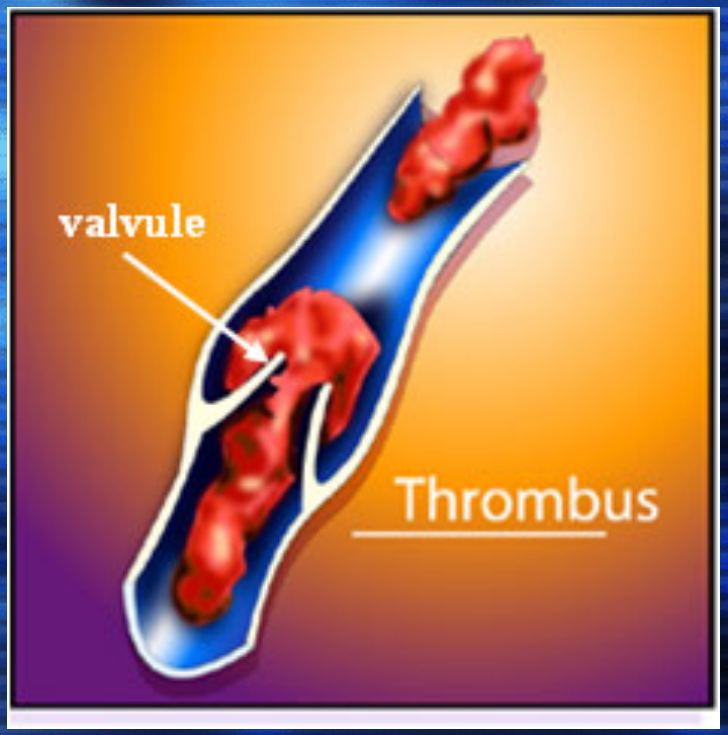
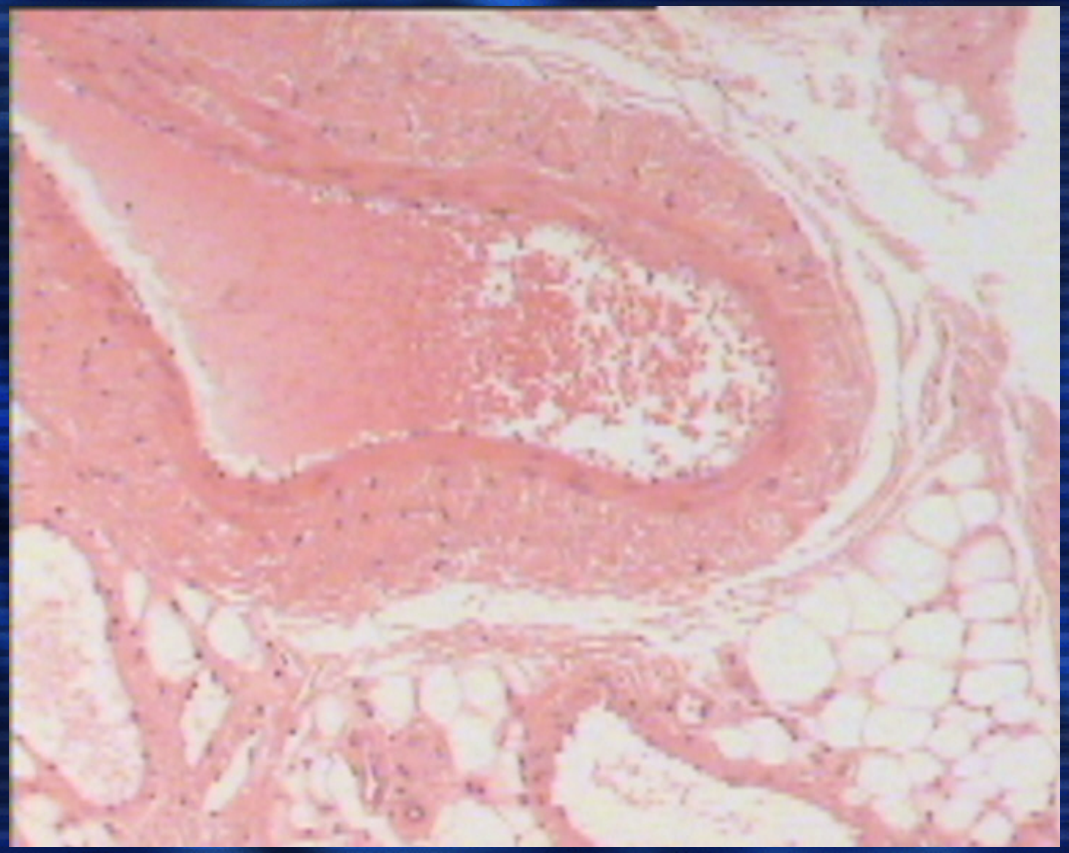
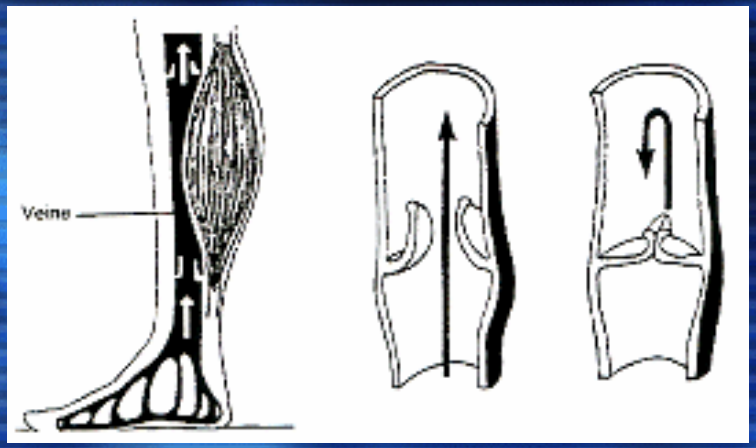


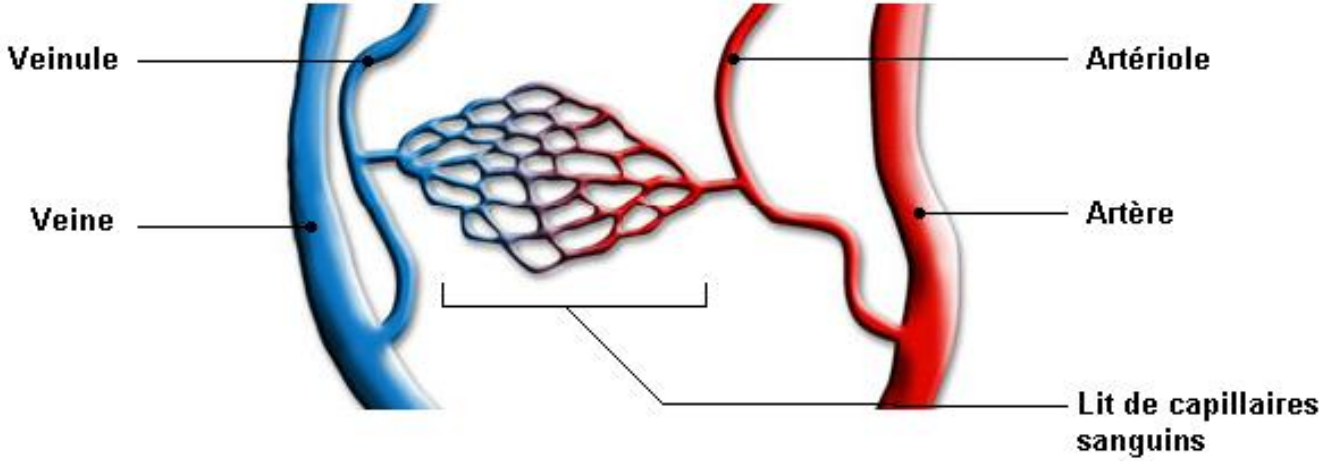
Schéma 1 :
Représentation d'une artère en 3 dimensions.



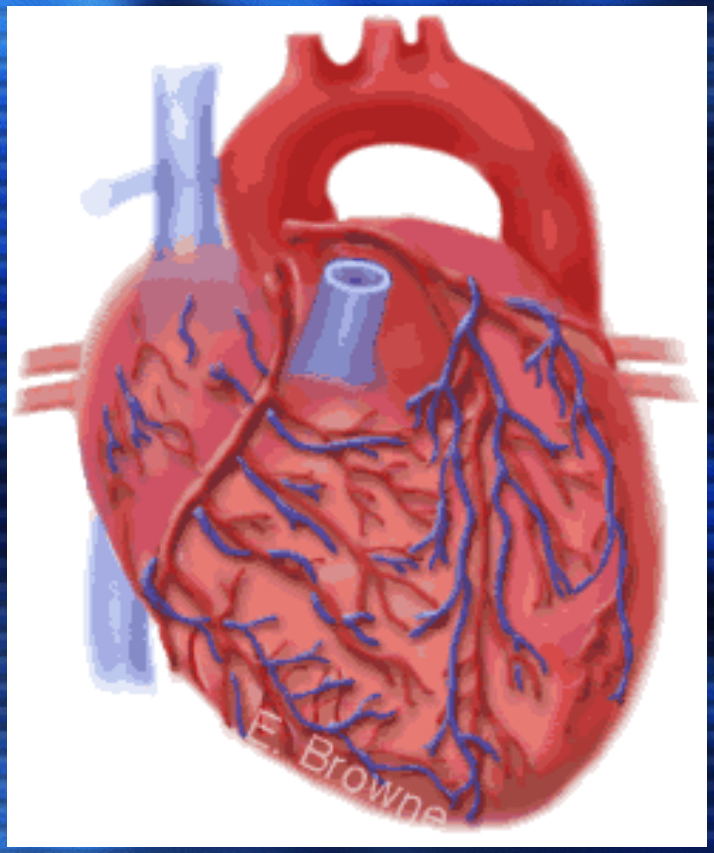

valvule
Thrombus

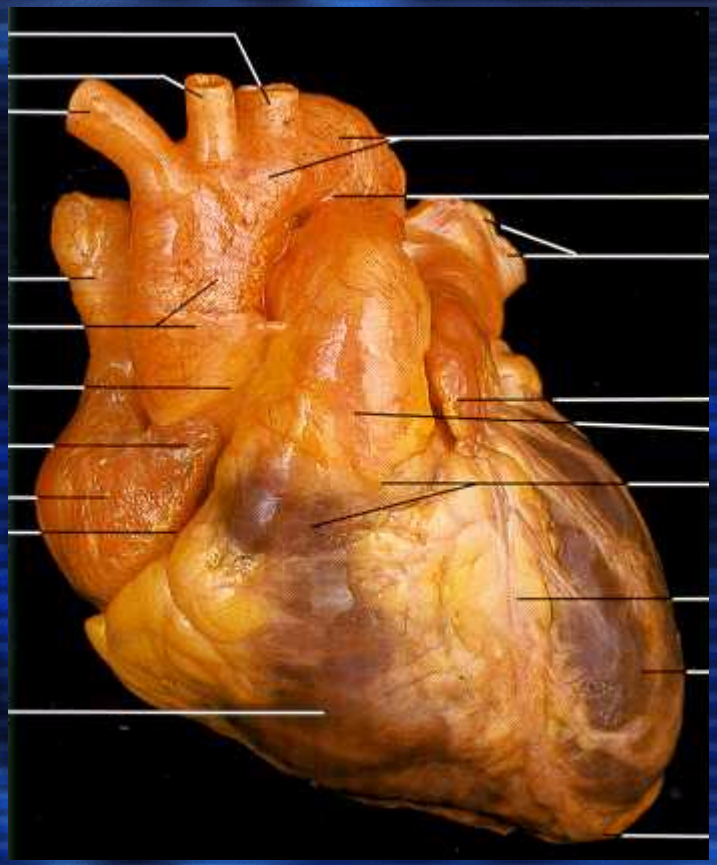


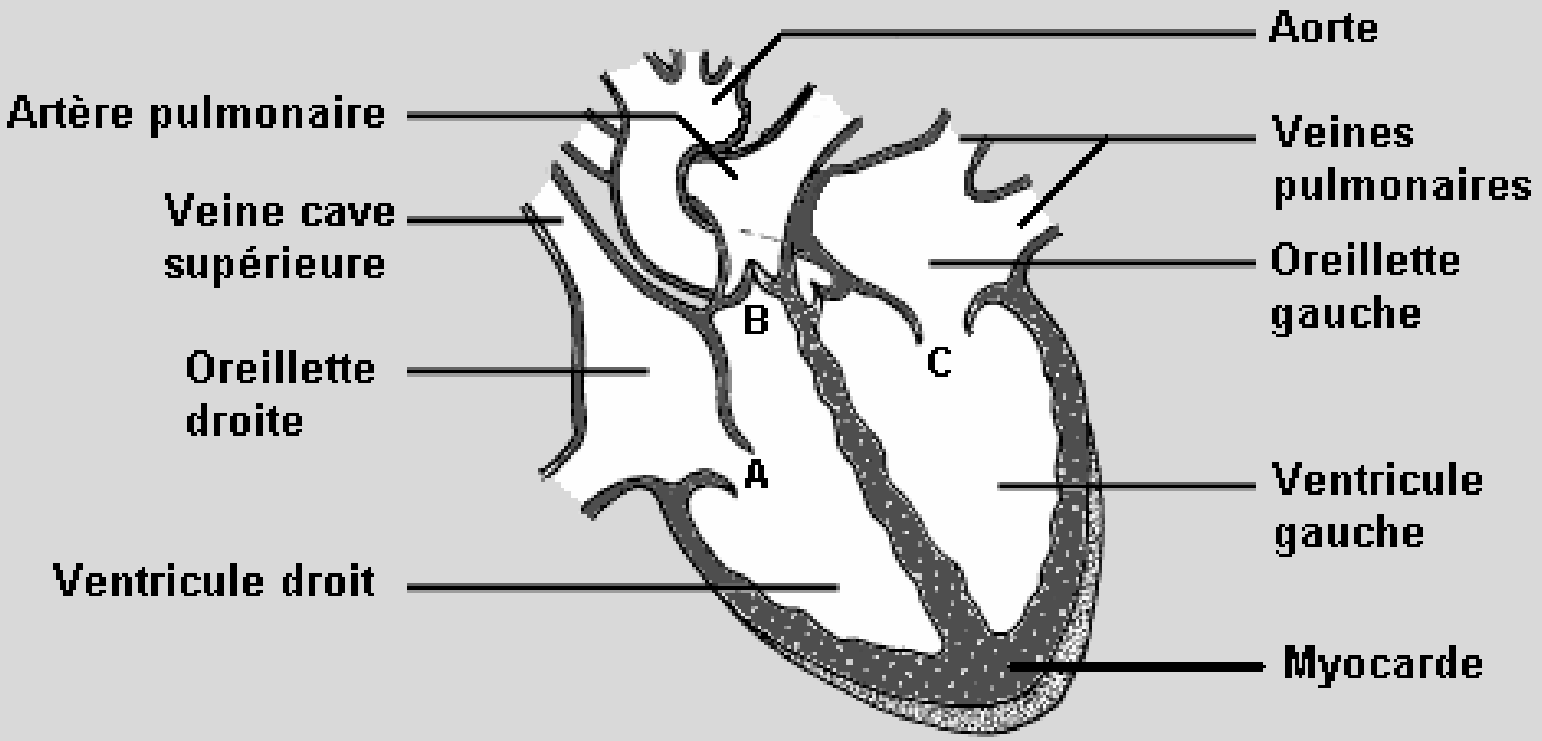

Veine



Les capillaires sanguins : une zone d'échange

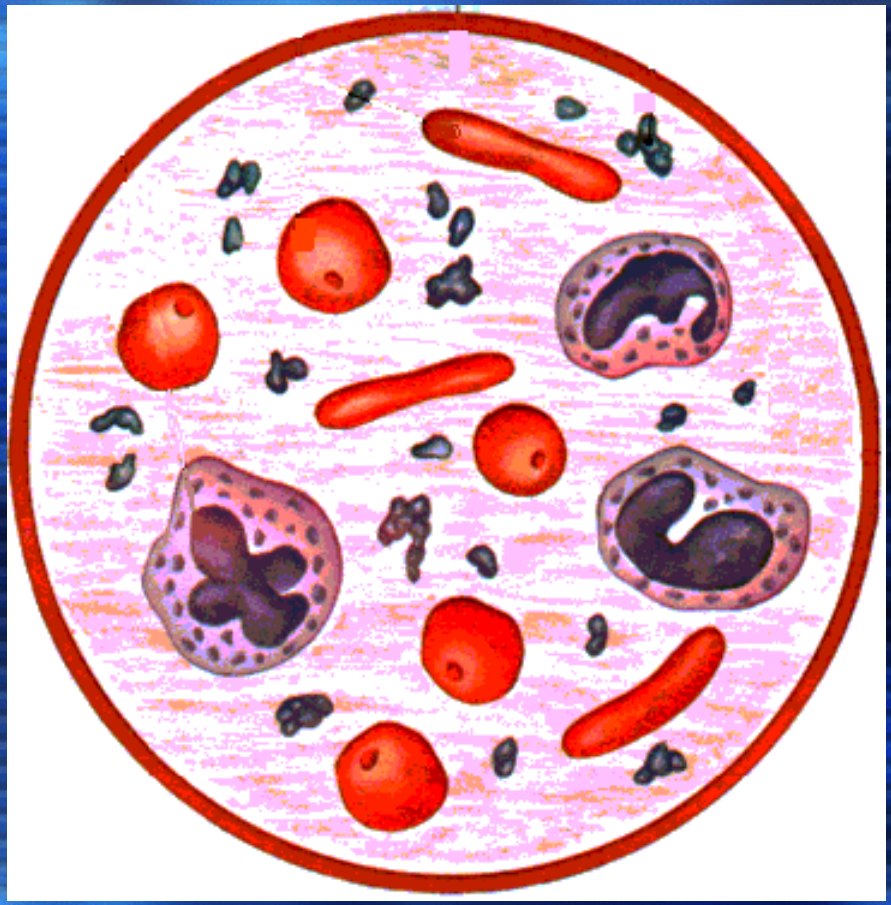

E. Browne

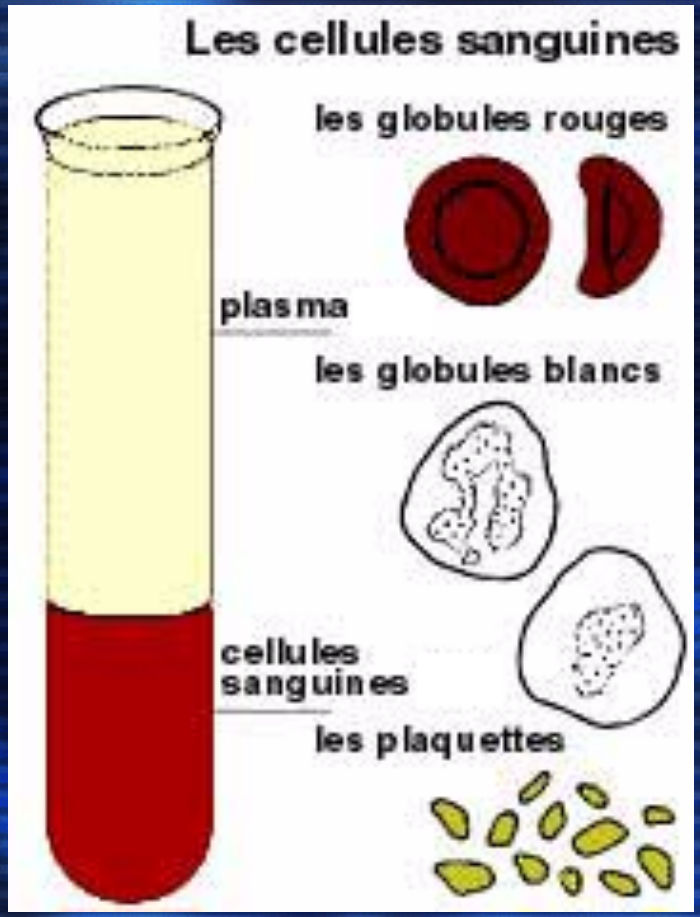


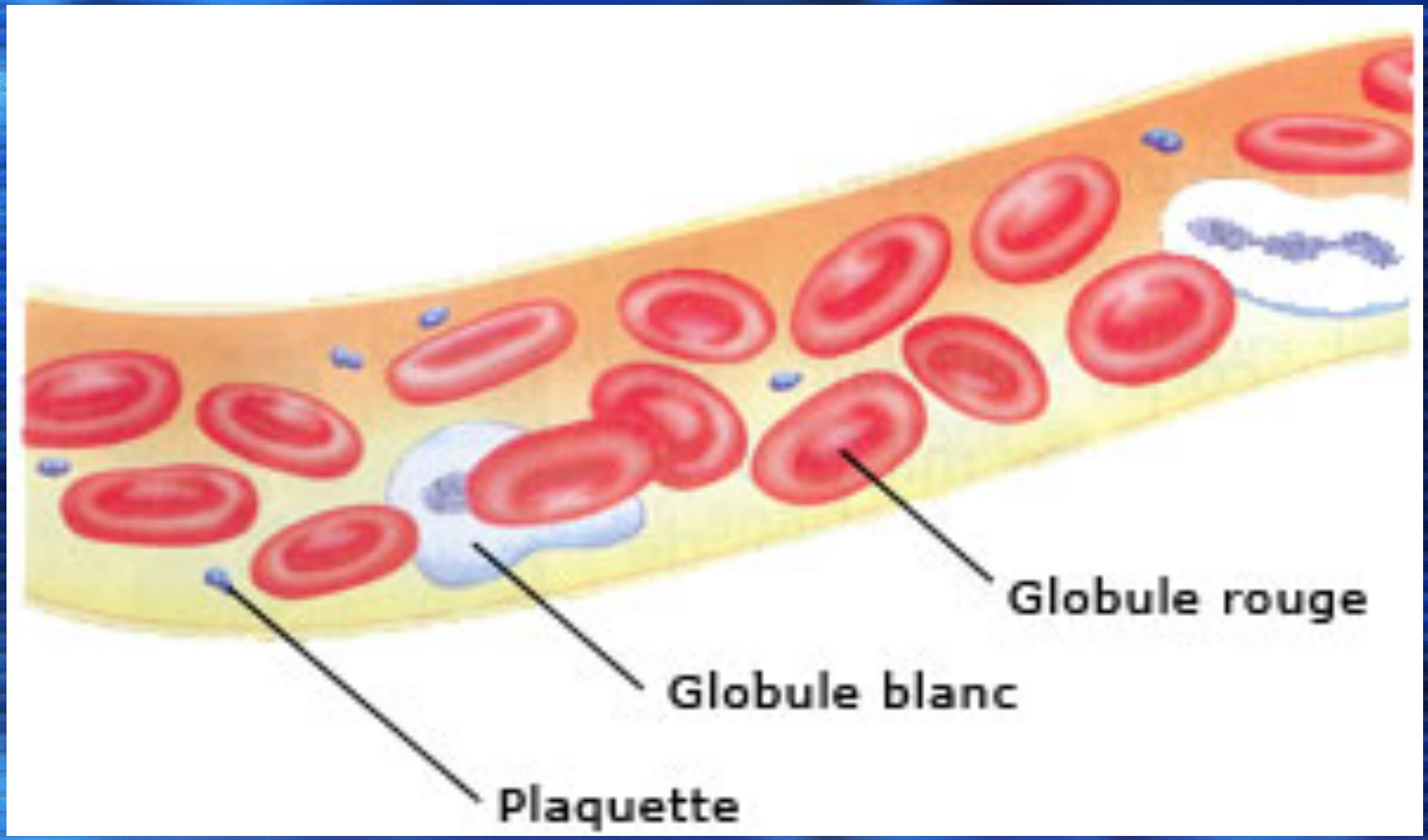


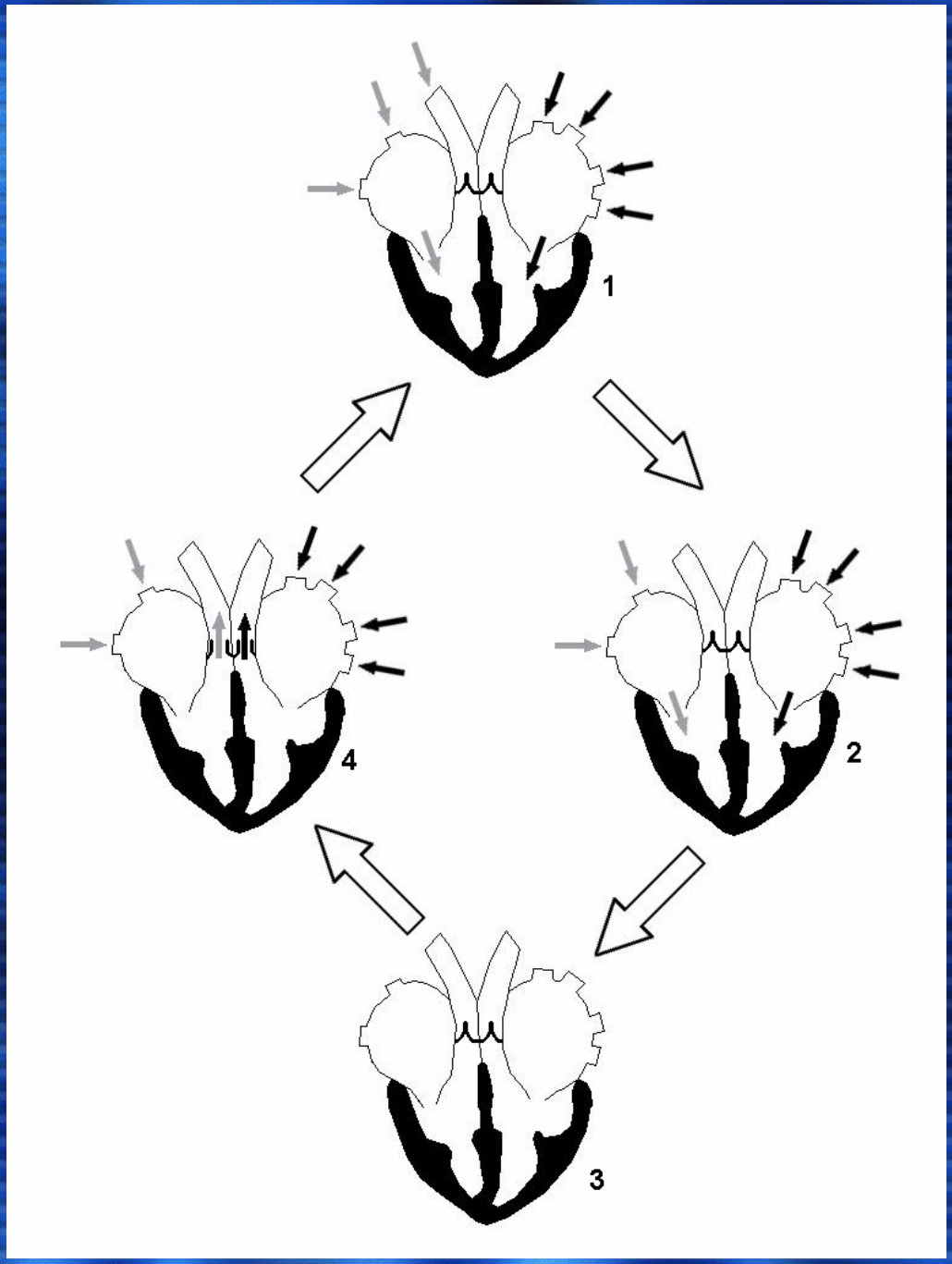
A : valvules tricuspides
B : valvules sigmoïdes
C : valvules mitrales

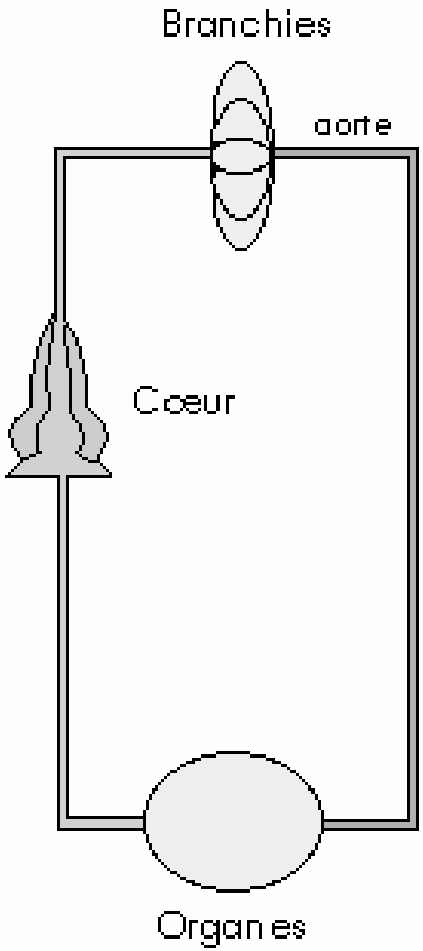
Schéma du coeur



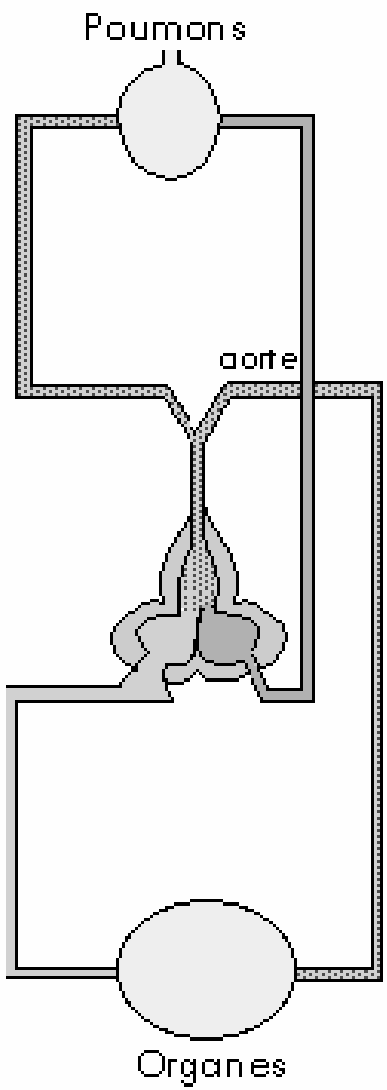

Les cellules sanguines
les globules rouges
plasma
les globules blancs
cellules sanguines
les plaquettes


Globule rouge
Globule blanc
Plaquette

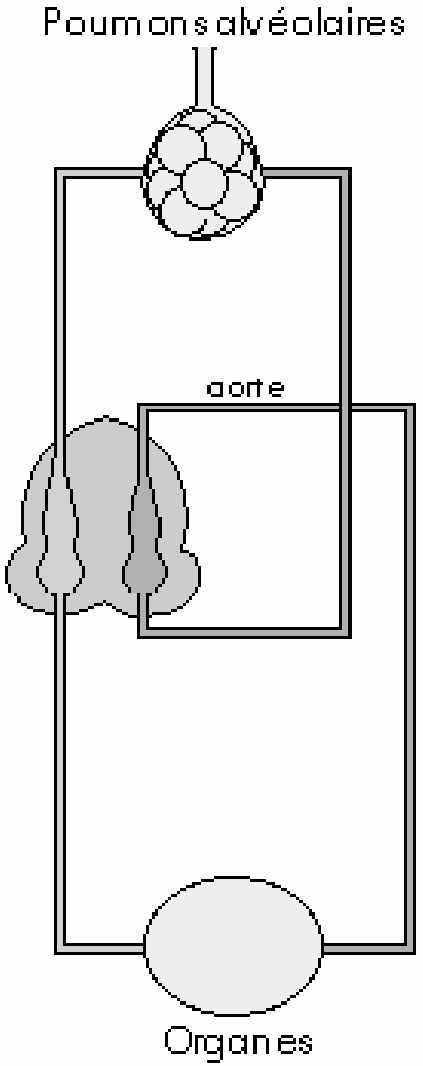

1
2
3
4



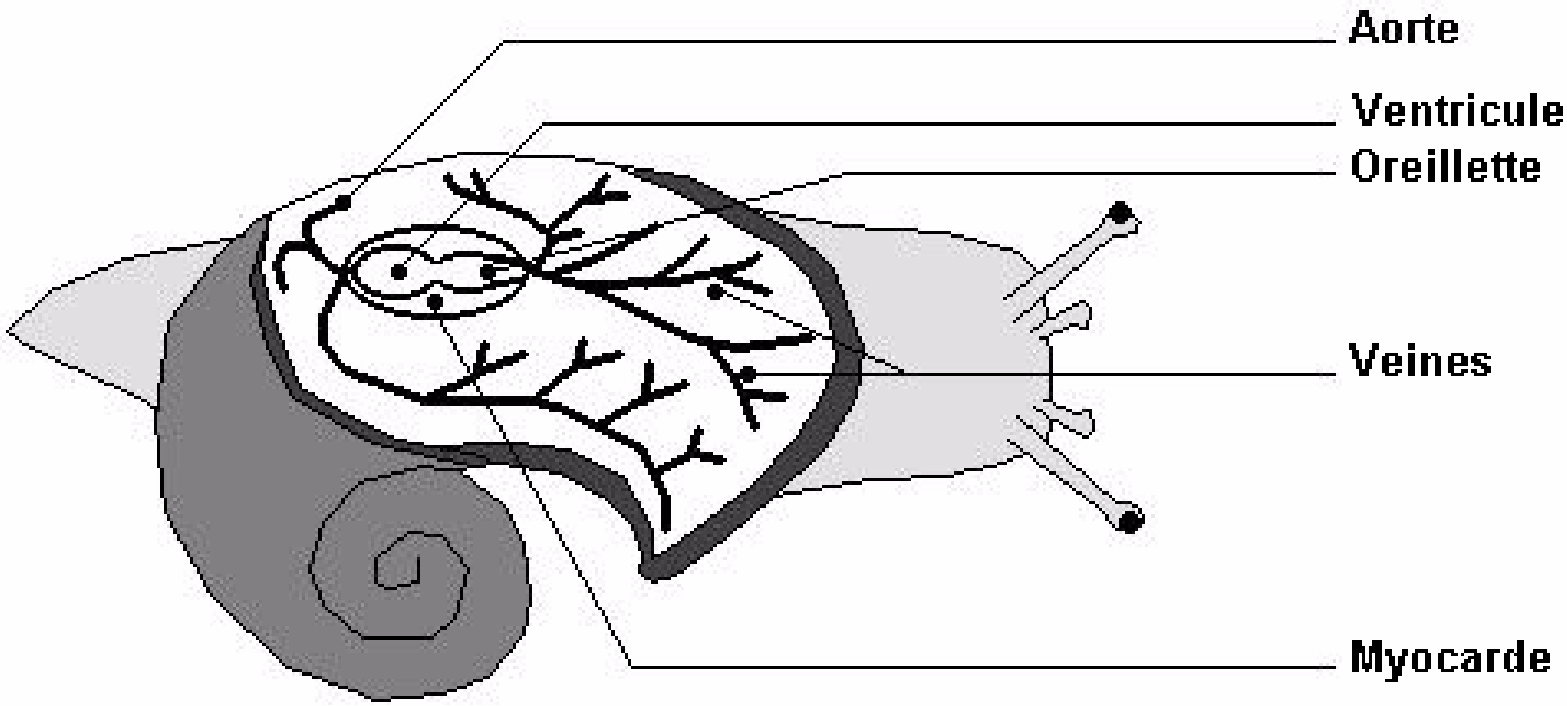
Poissons



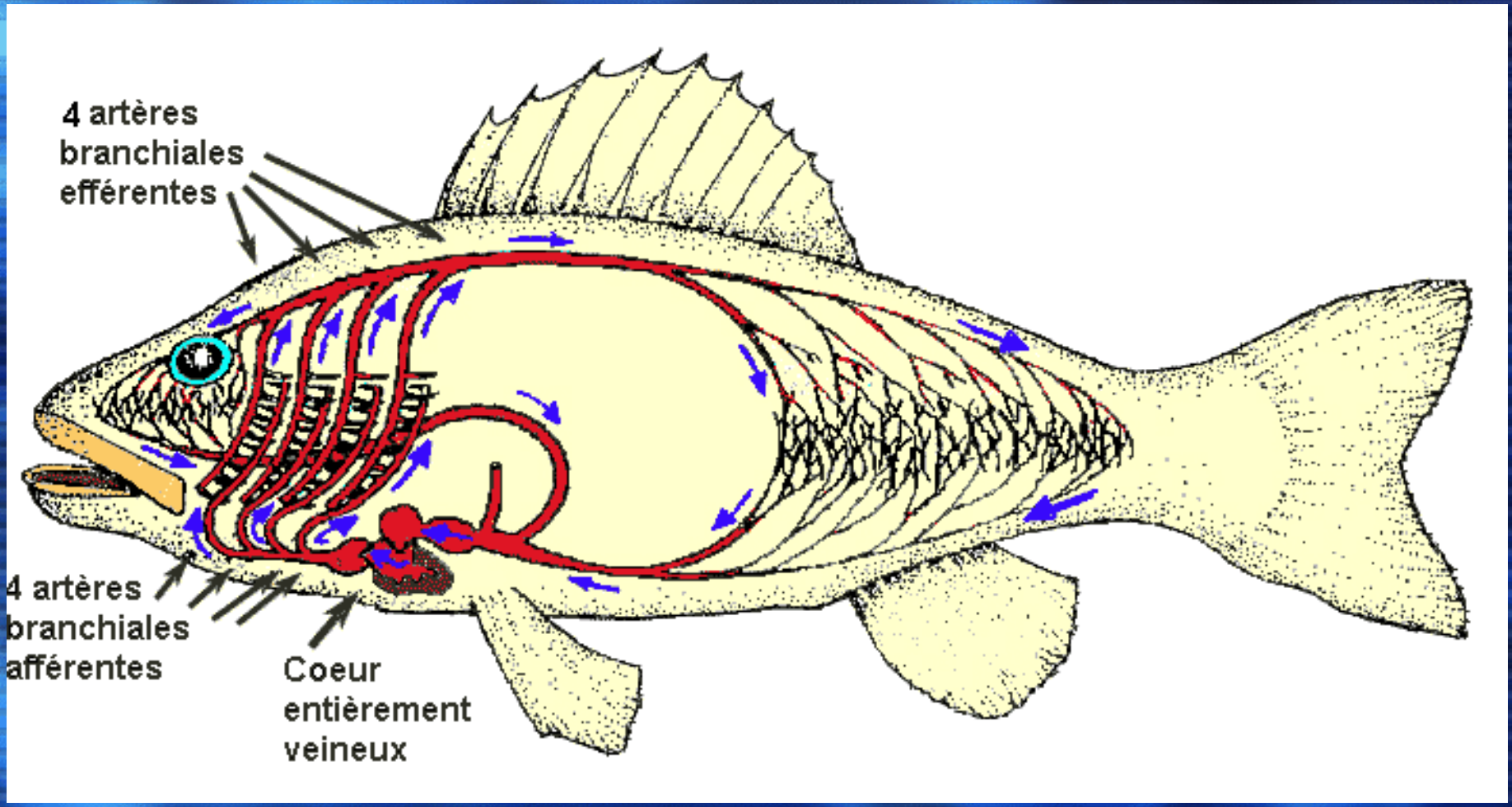
Reptiles

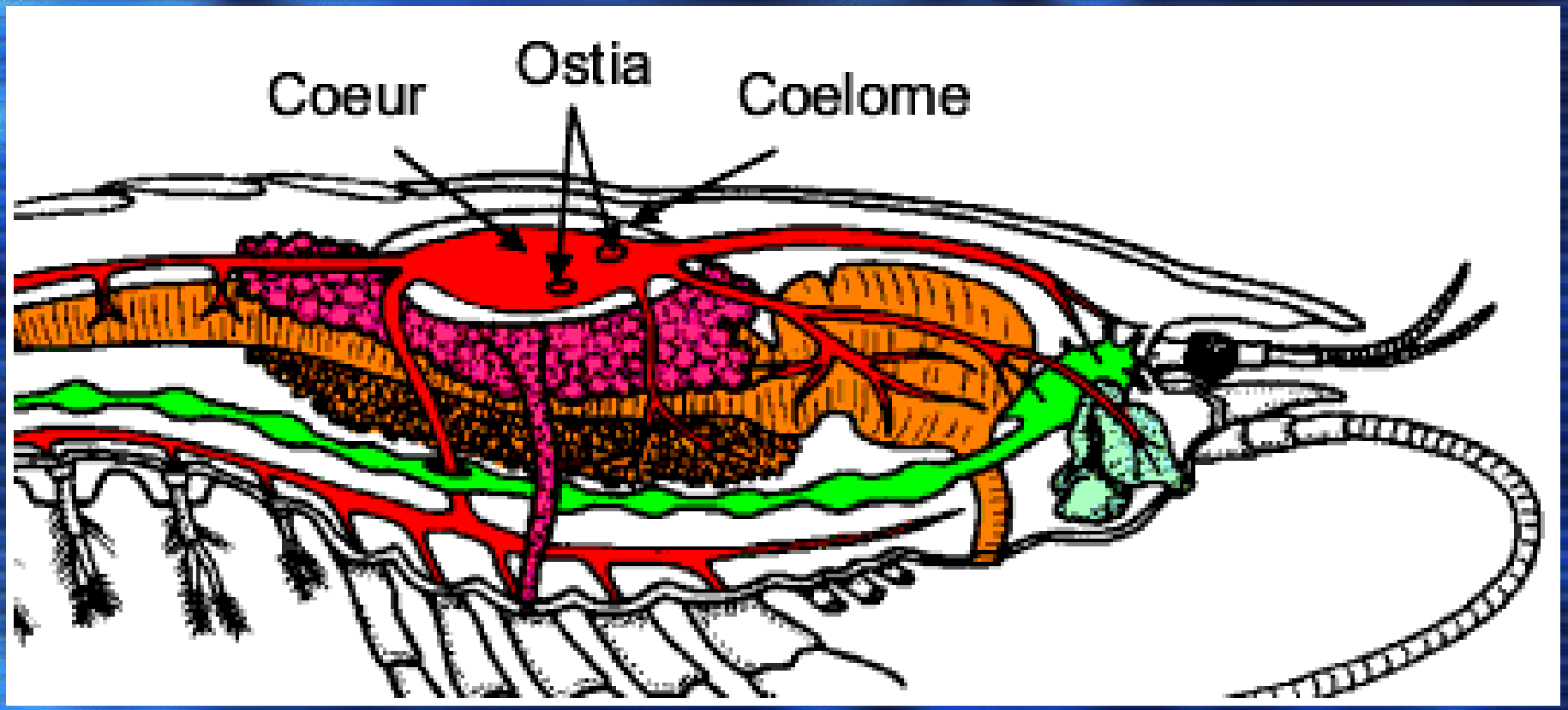


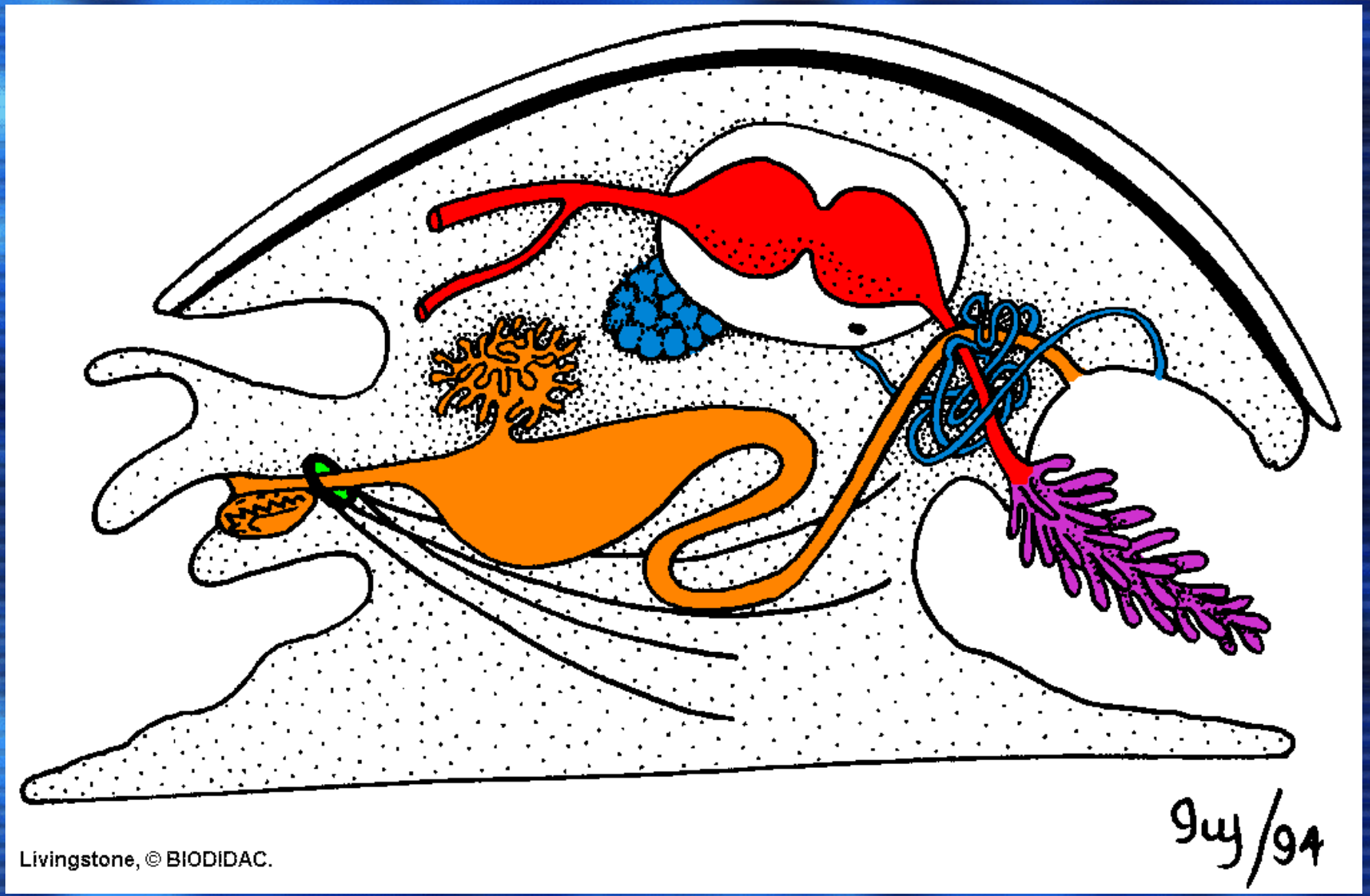
Mammifères



Appareil circulatoire d'un mollusque : l'escargot


4 artères
branchiales
efférentes
4 artères
branchiales
afférentes
Coeur
entièrement
veineux


Coeur
Ostia
Coelome



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