

2Exam 2 Study Guide

External respiration

- Cellular respiration (internal respiration) requires oxygen and the external respiration brings in the oxygen and take out the CO_2
- Evolution
 - Monotreme (egg laying mammals, such as the platypus) are old and they could not be big mammals, but an increase in oxygen in the late cretaceous period allowed for bigger mammals
- Respiratory organs—take gases from respiratory medium (air/water) past membrane and into body and get out waste
 - Lungs, gills, skin
 - Efficiency of respiratory organ—how much gas can be exchanged
 - How to increase efficiency—increase SA of membrane because respiration relies on diffusion
 - Eel larvae are all surface area (have a lot of skin) which shows importance of increasing SA for efficiency
 - Skin (integument) is the most important respiratory organ
 - Water is important for respiratory exchange because wet membranes move oxygen better than dry ones
 - Using skin as respiratory membrane is usually only done in small animals because the ability to diffuse decreases as size increases because surface area increases slower than mass
 - Passive mechanism—works by diffusion
 - Gills
 - Developmental transition for main respiratory membrane
 - Compared fish head and gills to fish lower body which only uses skin to breath and found that vertebrates use skin when they are small, but as they get larger, they rely on gills
 - Embryos don't have lungs until 2-3 months, so they rely on skin breathing for some of development
 - Lungless salamanders (plethodontidae) use only their skin to breath
 - Marsupial mammals have wet skin in development to bypass lungs until the lungs are developed
 - Passive to active mechanism
 - First vertebrates (hagfish—agnatha) have membranes in pouches on the sides of their heads that work in bidirectional flow (pouch expands and exchanges air and then pushes water out)
 - Development of jaws (gnathostome) changed the shape of pharynx to allow unidirectional active exchange
 - Jaws pump water across gills in one direction
 - Unidirectional flow of water across lamella allowed blood to flow in the opposite direction—countercurrent
 - Flow is unidirectional and continuous

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Lei Shi

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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