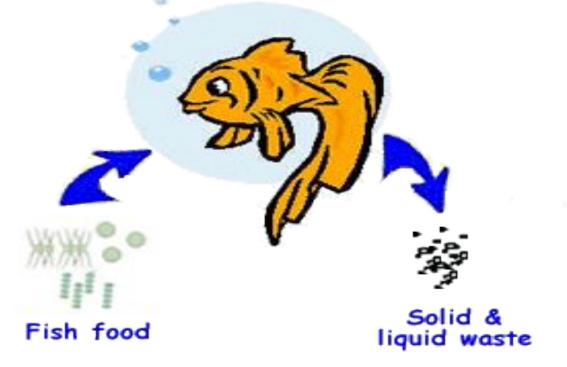
Importance of excretion (зәр шығару, выделение)

Excretion is a process of removing waste products from organism

•Excretion helps to keep constant internal balance (Homeostasis)



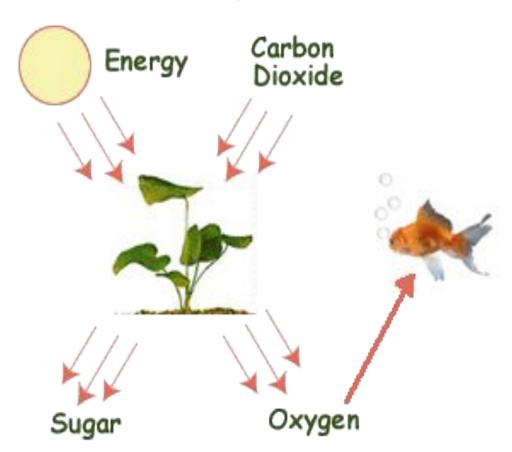


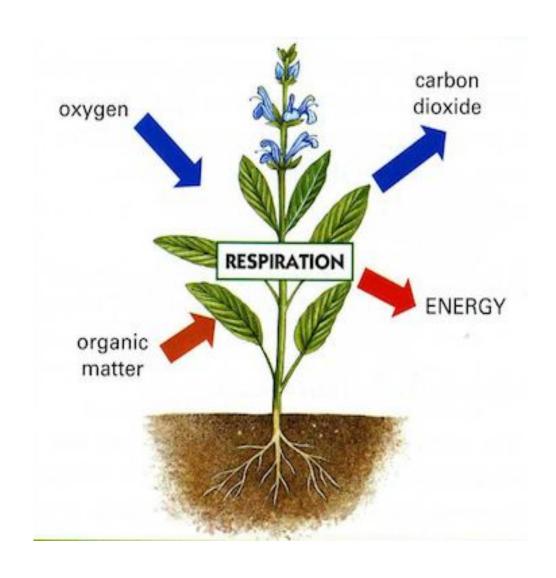
Excretion in plants

- •Waste in plants:
- Oxygen (O2)
- Carbon Dioxide (CO2)
- •Organic salts (тұз, соль)
- •Gums (шайыр, смола)
- •Resin (шайыр, смола)
- •Latex (өсімдік сүтшырыны, млечный сок)

Oxygen and carbon dioxide

Photosynthesis





Organic salts



28.13: © Jurgen Freund/Naturepl.com.





Gums and resin







Latex

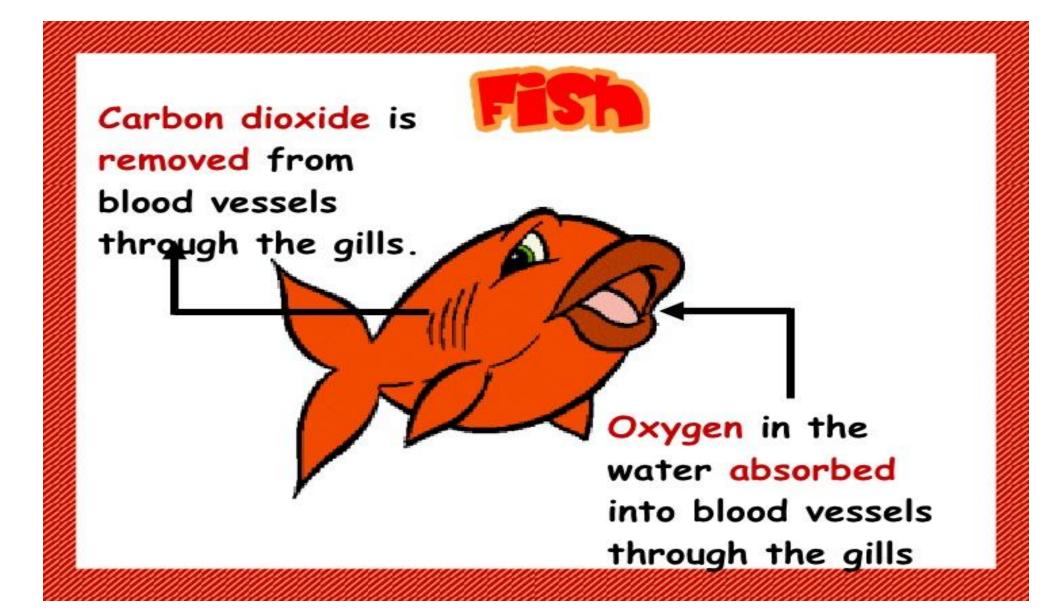




Excretion in animals

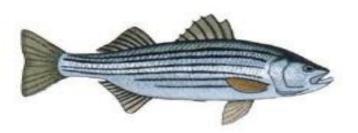
- •Waste in animals:
- Carbon dioxide (CO2)
- •Urea (мочевина)
- •Uric acid (мочевая кислота)
- Water
- •Excess (артық,лишний) salt
- •Excess bile (өт,желчь)

Carbon dioxide (CO2)



Urea and uric acid

Fig. 44-9a



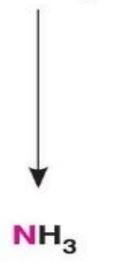
Most aquatic animals, including most bony fishes



Mammals, most amphibians, sharks, some bony fishes



Many reptiles (including birds), insects, land snails



$$o = c < \frac{NH_2}{NH_2}$$

Urea

Uric acid

Ammonia

Water and salts





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Bile

