

Homework 5

Explain the following terms:

Homeostasis

Hypothalamus

Pituitary

Urophysis

Catecholamines

Melatonin

Endocrine disrupting compounds

Autonomic nervous system

Isozymes

Heterothermy

Osmoregulation

Euryhaline

Memory cells

Heat shock proteins (HSPs)

Chloride cells

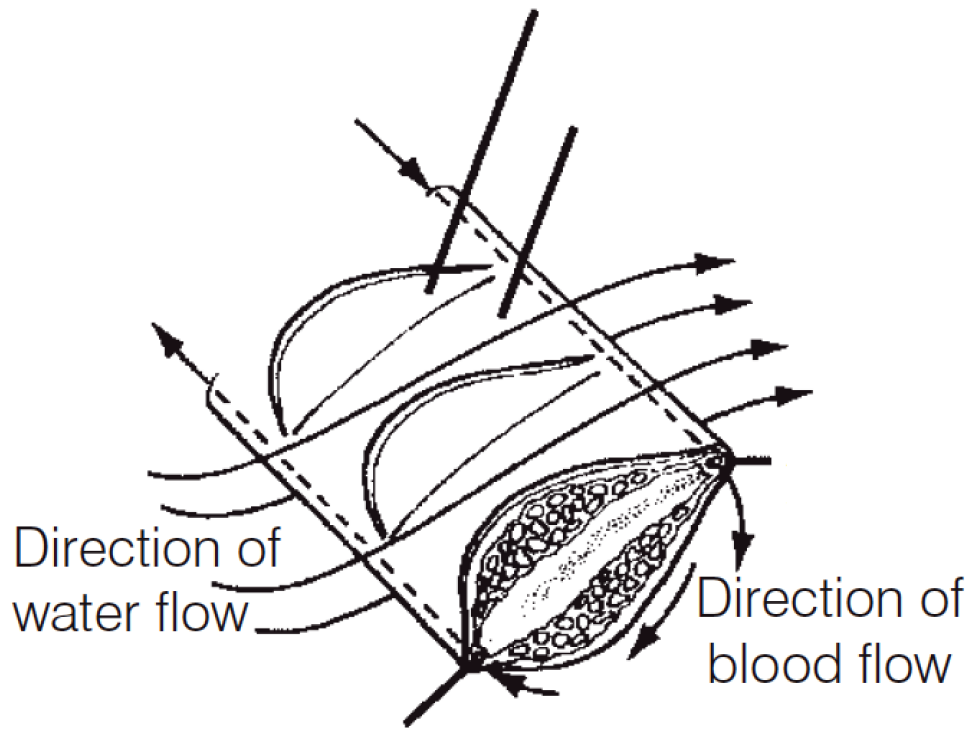
Short questions:

1. Describe buccal pumping and ram ventilation. Name two species for each way of breathing in fishes.

2. What are the possible driving factors for evolving of air breathing? How to test those hypotheses?

3. Explain the mechanism of how gas is added into the gas bladder of fishes. Make sure to include the three physiological phenomena.

Complete the names of the structures in the diagram



$$C = E + R + P$$

