Homeostasis & Feedback Loops

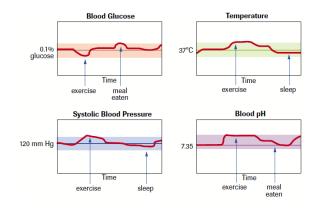


Homeostasis:

Main Internal Dynamic Equilibriums:

- Body temperature -
- Water balance/ blood pressure -
- Water/ion balance -
- Blood glucose levels -
- Blood oxygen/CO₂ levels (pH) -

Common Examples of Homeostatic Balance Being Maintained

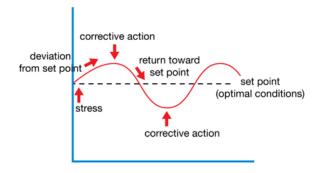


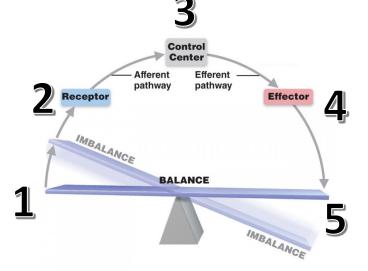
Feedback Loops

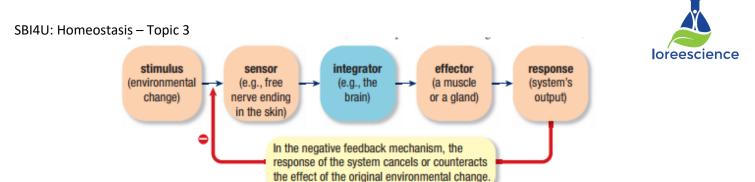
NEGATIVE

- 1.
- 2.
- 3.
- 4.
- 5.

Regulation Through Negative Feedback







POSITIVE

1-4.

5.

Set point

Effector working

disturbance

Time

ex.



Forms of Regulation:

- Voluntary:
- Involuntary:



Involuntary Regulation Mechanisms

Osmotic	Hormonal	Nervous	Immune