

Controlling Internal Conditions

Homeostasis: maintaining a constant internal environment to ensure your body functions properly.

There are six different bodily levels that need to be controlled:

1) The Removal of CO_2 } are wastes, constantly being produced,

2) The Removal of **Urea** } need to be removed.

3) **Ion Content** }

4) **Water Content** }

5) **Sugar Content** }

6) **Temperature** }

we need these but at just the right temperature.

Ion Content

- The **kidneys** adjust the ion content of the blood.
- ion content controlled to prevent damage.
- lost through sweating and urine
- too much / too little will affect the water movement into the cells

Water Content

- The **kidneys** adjust the water content of the blood.
- water is controlled to prevent damage.
- lost through breathing, sweating and urine.
- too much / too little will affect the water movement into the cells

CO_2

- produced during aerobic respiration
- its poisonous - affect pH balance.
- most removed when you breath out.

Urea

- produced in your liver
- amino acids are converted into urea.
- its poisonous
- filtered out of blood by kidneys
- removed in urine after being collected in the bladder.