

↑ CO_2
↑ H^+
↑ ACIDITY ($\text{pH} \downarrow$)



↑ DETECTION BY CHEMORECEPTORS

- MEDULLA OBLONGATA (SLOW) (CENTRAL CHEMORECEPTORS)
- AORTIC & CAROTID BODIES (FAST) (PERIPHERAL CHEMORECEPTORS)

↓
RESPIRATORY CENTRE
MEDULLA OBLONGATA

PHRENIC
INTERCOSTAL

↑ NERVE IMPULSES TO:

→ DIAPHRAGM

→ INTERCOSTAL MUSCLES

↓
↑ RATE & DEPTH OF BREATHING
IN ORDER TO EXPEL EXCESS
 CO_2

↓ CO_2
↓ H^+
↓ ACIDITY ($\text{pH} \uparrow$)

↓ DETECTION BY CHEMORECEPTORS:

- MEDULLA OBLONGATA (SLOW)
- AORTIC & CAROTID BODIES (FAST)

PHRENIC
INTERCOSTAL

↓ NERVE IMPULSES TO:

→ DIAPHRAGM

→ INTERCOSTAL MUSCLES

↓
↓ RATE & DEPTH OF BREATHING