

Regulation of blood glucose

Stimulus = High Blood Glucose

Sensor(s) = pancreas



Integrating center = pancreas



Effectors (muscle or gland cells) =

Beta cells of pancreas

What hormone is secreted?

insulin

What does this hormone cause to happen in the body?

tells body cells to take up blood glucose



End Effect = ↓ blood glucose

(What does this do to blood glucose?)

Stimulus = Low Blood Glucose

Sensor(s) = pancreas



Integrating center = pancreas



Effectors (muscle or gland cells) =

alpha cells of pancreas

What hormone is secreted?

glucagon

What does this hormone cause to happen in the body?

tells liver to break down glycogen into glucose & release into blood.



End Effect = ↑ blood glucose

(What does this do to blood glucose?)