







BLOOD CALCIUM CONTROL

[Stimulus]	RECEPTOR	CONTROL CENTER	EFFECTOR	[Response]
	AFFERENT 		EFFERENT 	
 Ca⁺⁺	Chemical Receptors of the <u>PARATHYROID</u>	PARATHYROID releases PTH	BONE (osteoclasts) KIDNEY (Reabsorption)	 Ca⁺⁺
 Ca⁺⁺	Chemical Receptors of the <u>THYROID</u>	THYROID releases CALCITONIN	BONE (osteoblasts) KIDNEY (excretion)	 Ca⁺⁺

GROWTH HORMONE (GH) - via the *Pituitary* gland stimulates osteoblasts

THYROXIN - via the *Thyroid* gland (follicle cells) works with GH

SEX HORMONES - (estrogens & androgens) also stimulate osteoblasts

CALCITRIOL - VIA the *Kidneys* promotes Ca^{++}/K^+ ion absorption from GI