

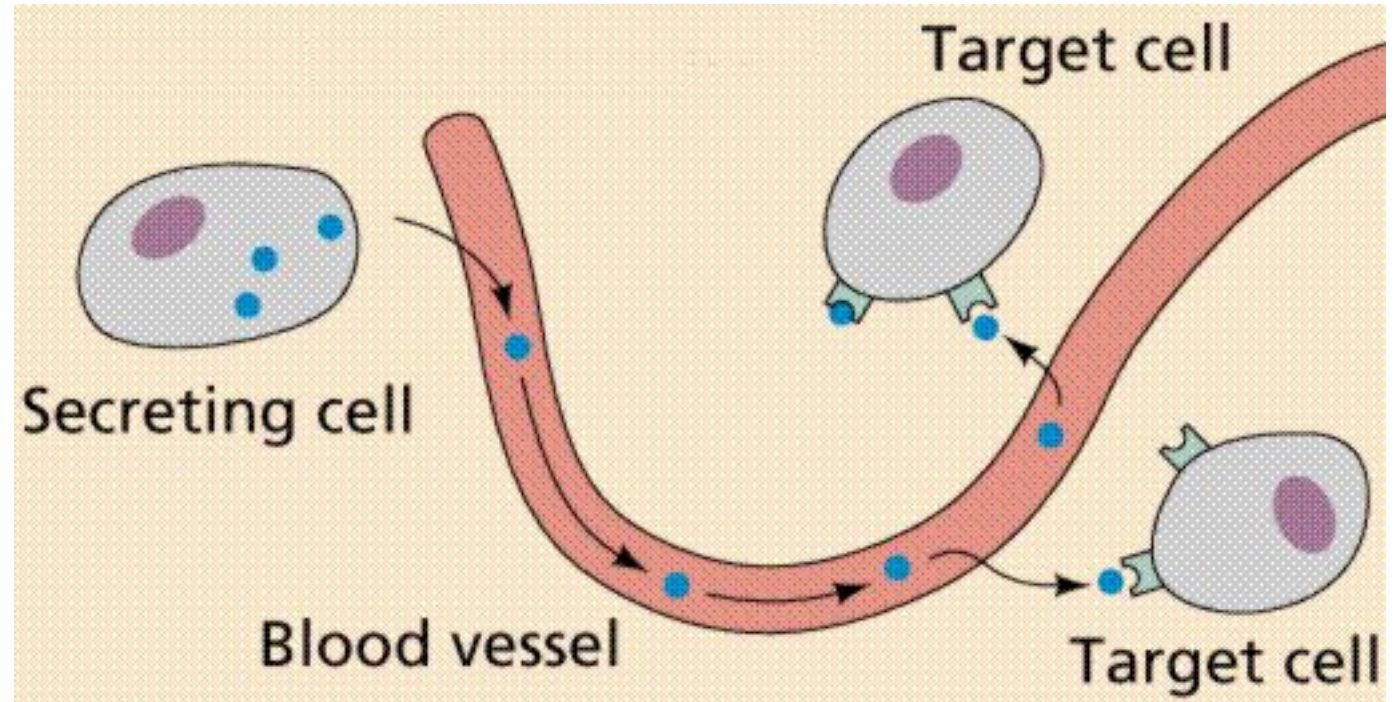
Endocrine glands



You will:

- determine the location of the endocrine, exocrine and mixed glands
- explain main functions of glands

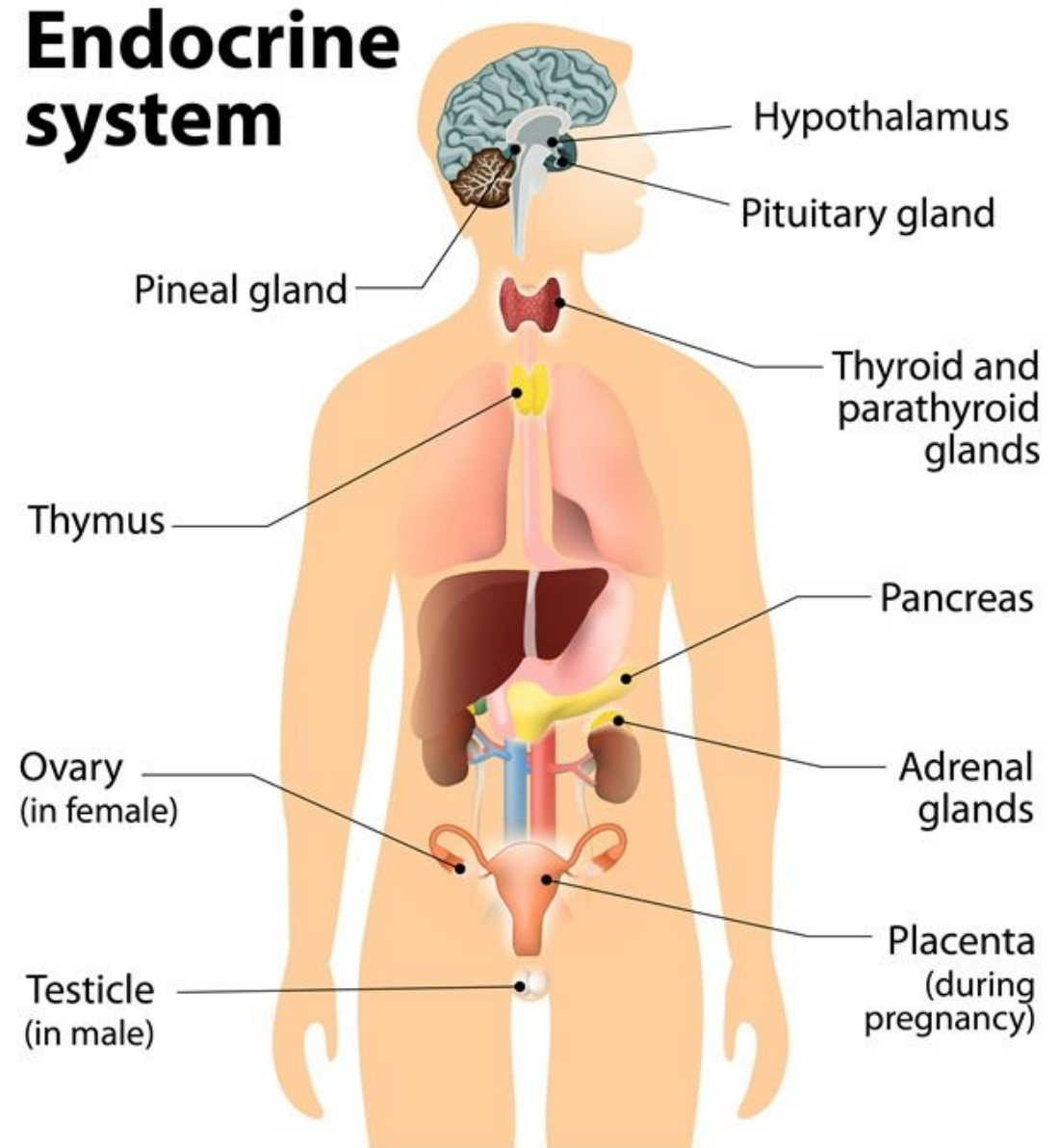
- **Glands** are organs that synthesize different molecules and secrete them outside.
- **Hormone** - chemical messenger produced by glands that regulate activity of target organ
- Organs regulated by hormones are known as **target organs**.



There are two main types of glands: exocrine and endocrine.

- **Exocrine glands** secrete molecules into body cavities or out of the body.
- Glands inside our mouth, stomach and intestine secrete enzymes. They neutralize pathogens and digest food.
- **Lacrimal glands** secrete tears.
- **Sweat glands** produce sweat

- **Endocrine glands** secrete molecules called **hormones** into the blood.
- Organs regulated by hormones are known as **target organs**.



Gland	Hormone	Function
<i>Pituitary gland</i>	Growth hormone	Stimulates growth and bone formation
<i>Thyroid gland</i>	Thyroxine	Accelerates metabolism and heart rate
<i>Adrenal glands</i>	Epinephrine (adrenaline)	Increase blood pressure, glucose level
<i>Pancreas</i>	Insulin	Controls glucose concentration in blood by converting excess glucose into glycogen
<i>Testes</i>	Testosterone	Stimulates formation of secondary male sex characteristics
<i>Ovary</i>	Estrogen	Stimulates formation of secondary female sex characteristics