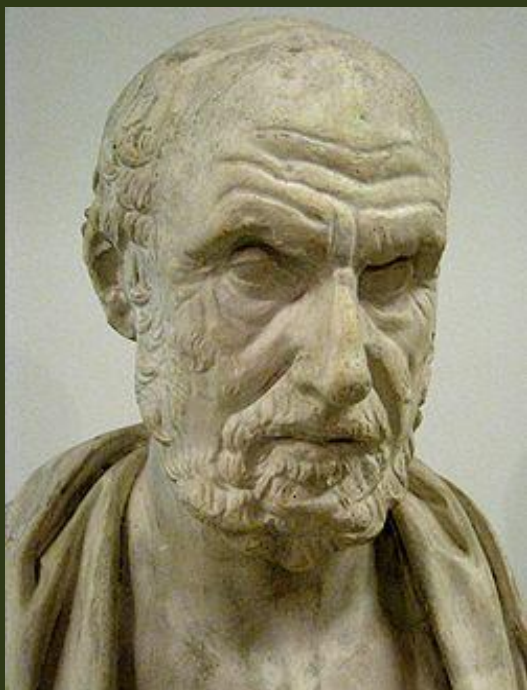


Патофізіологія ендокринної системи



Лектор- доцент, к.м.н., Пашевін
Д.О

Ендокринна система-система регулювання діяльності органів та показників гомеостазу через виділення гормонів, які секретуються спеціалізованими ендокринними клітинами у внутрішні середовища організму

Organs of the endocrine system (purple) and other organs containing tissues that secrete hormones (tan)

Hypothalamus

Secretes hormones involved with fluid balance, smooth muscle contraction, and the control of hormone secretion by the anterior pituitary gland

Pituitary Gland

Secretes multiple hormones that regulate the endocrine activities of the adrenal cortex, thyroid gland, and reproductive organs, and a hormone that stimulates melanin production

Thyroid Gland

Secretes hormones that affect metabolic rate and calcium levels in body fluids.

Adrenal Glands

Secrete hormones involved with mineral balance, metabolic control, and resistance to stress; the adrenal medullae release E and NE during sympathetic activation

Pancreas (Pancreatic Islets)

Secretes hormones regulating the rate of glucose uptake and utilization by body tissues

Pineal Gland

Secretes melatonin, which affects reproductive function and helps establish circadian (day/night) rhythms

Parathyroid Glands

Secrete a hormone important to the regulation of calcium ion concentrations in body fluids

Organs with Secondary Endocrine Functions

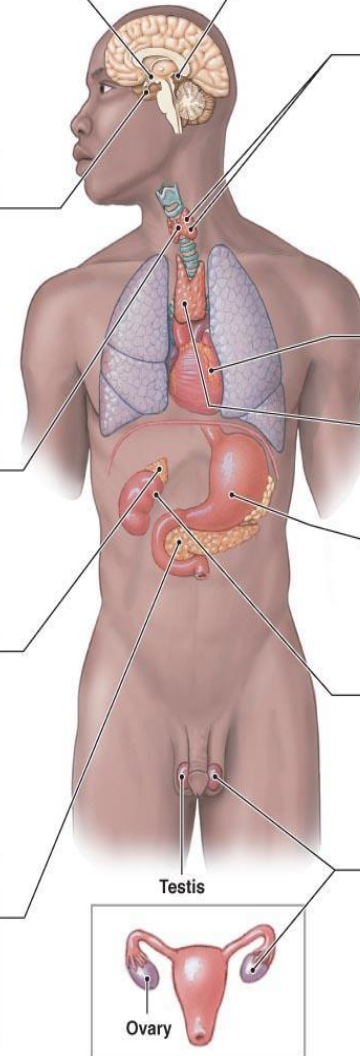
Heart: Secretes hormones involved in the regulation of blood volume

Thymus: Secretes hormones involved in the stimulation and coordination of the immune response

Digestive Tract: Secretes numerous hormones involved in the coordination of system functions, glucose metabolism, and appetite

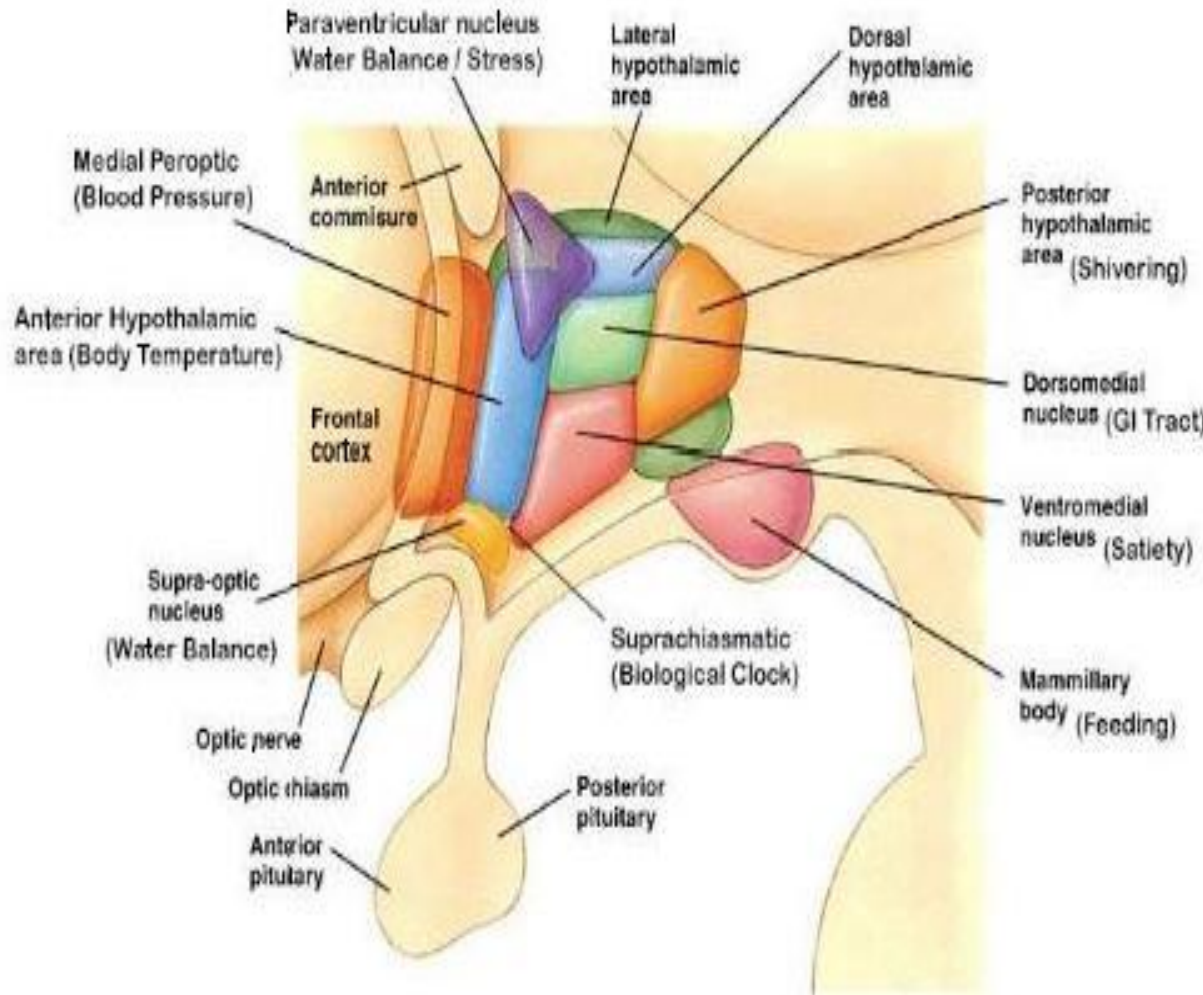
Kidneys: Secrete hormones that regulate blood cell production and the rates of calcium and phosphate absorption by the intestinal tract

Gonads: Secrete hormones affecting growth, metabolism, and sexual characteristics, as well as hormones coordinating the activities of organs in the reproductive system



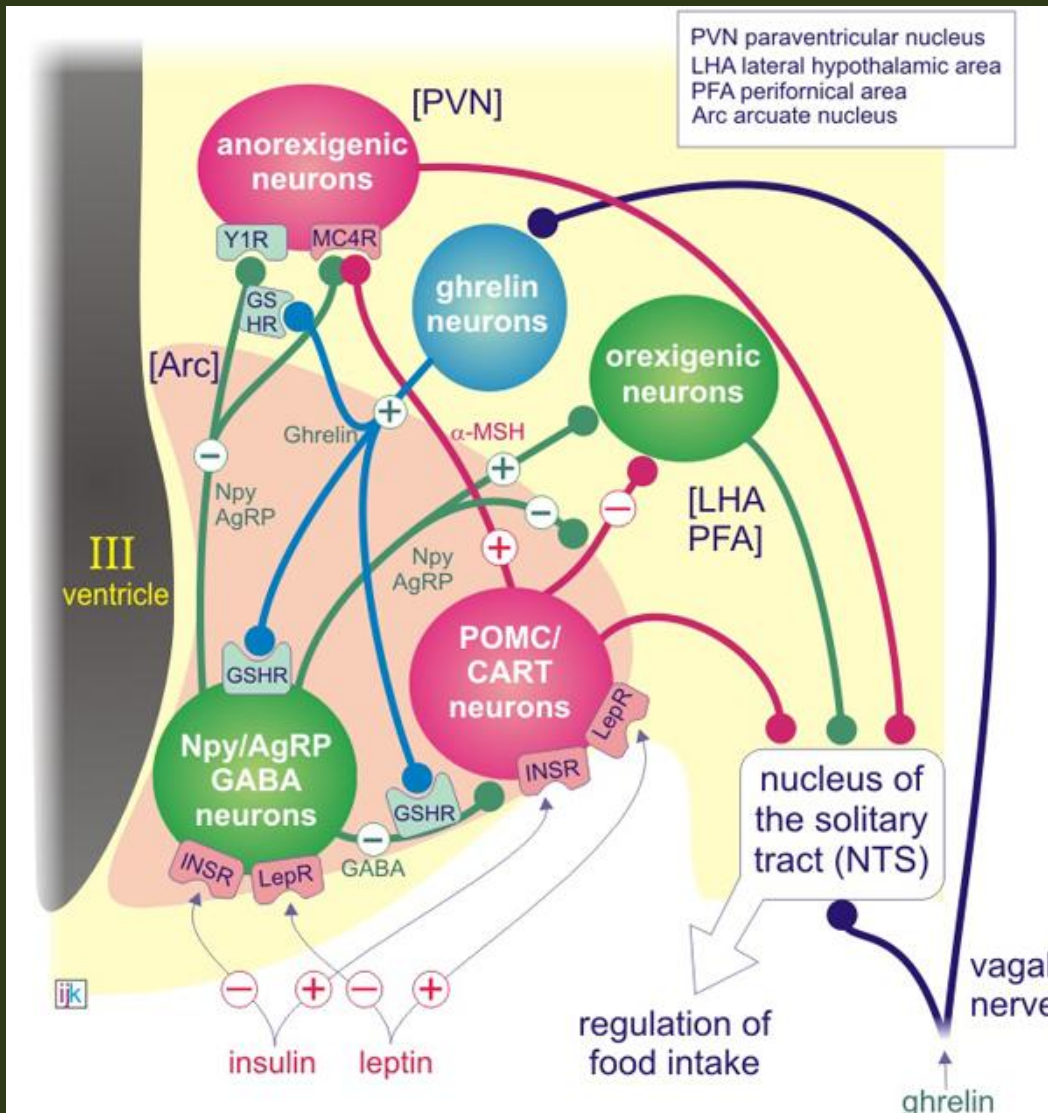
Гіпоталамус

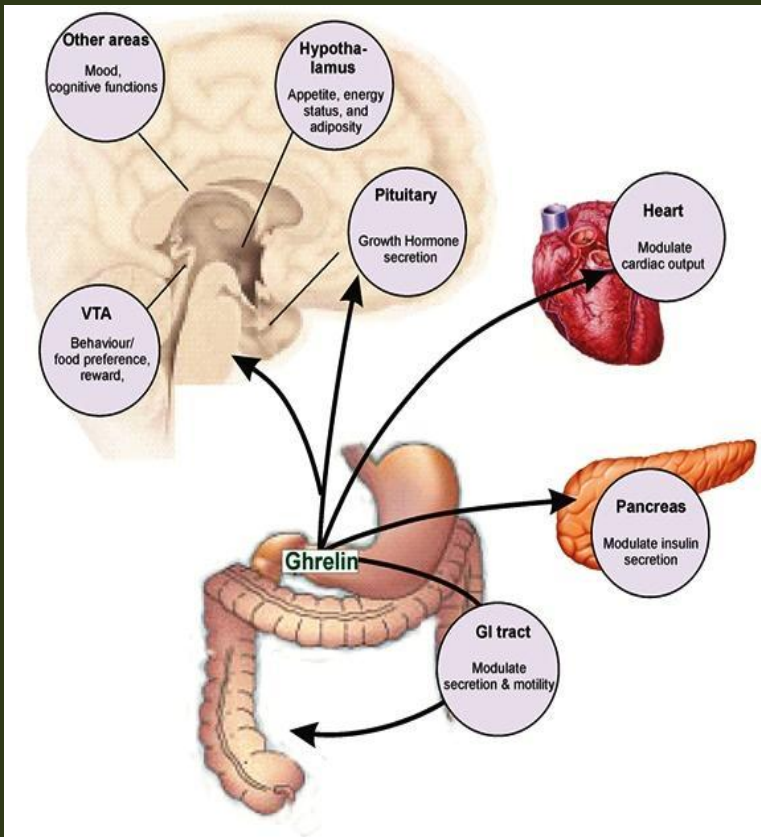
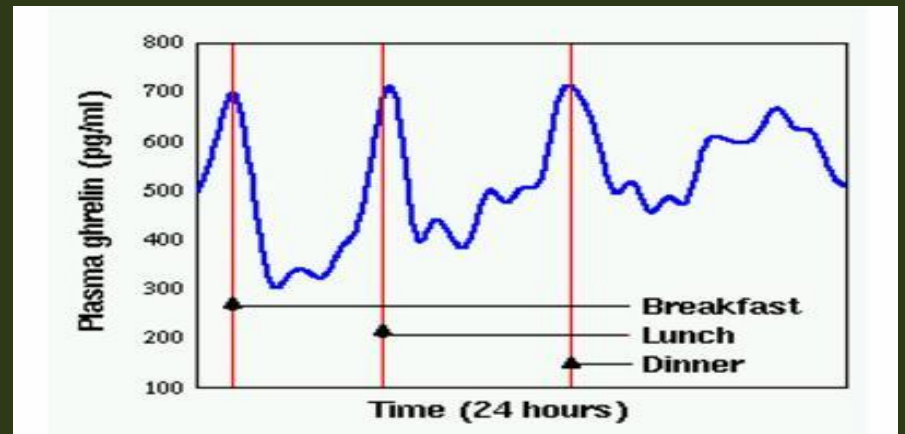
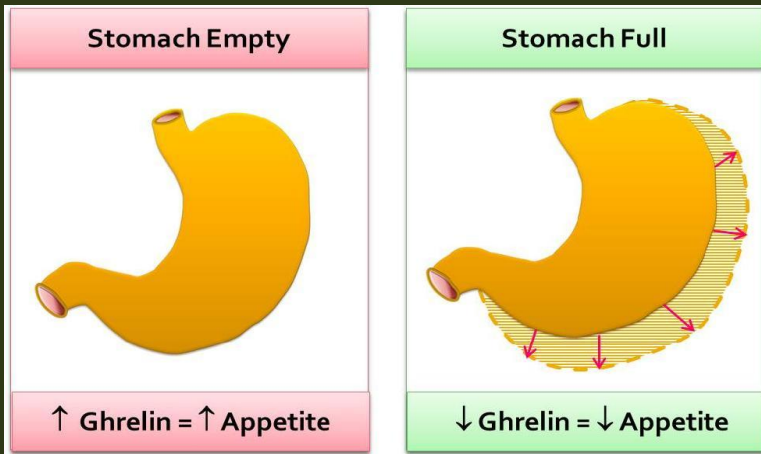
► Nuclei of the Hypothalamus

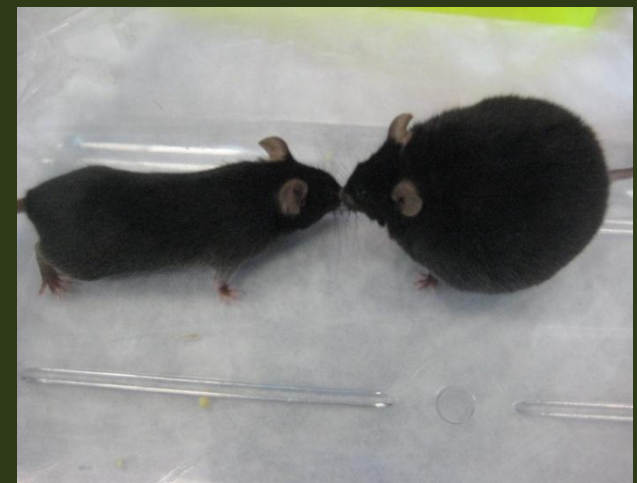
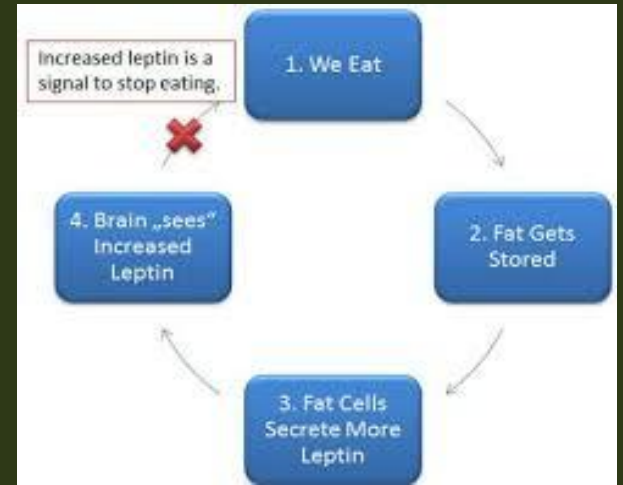
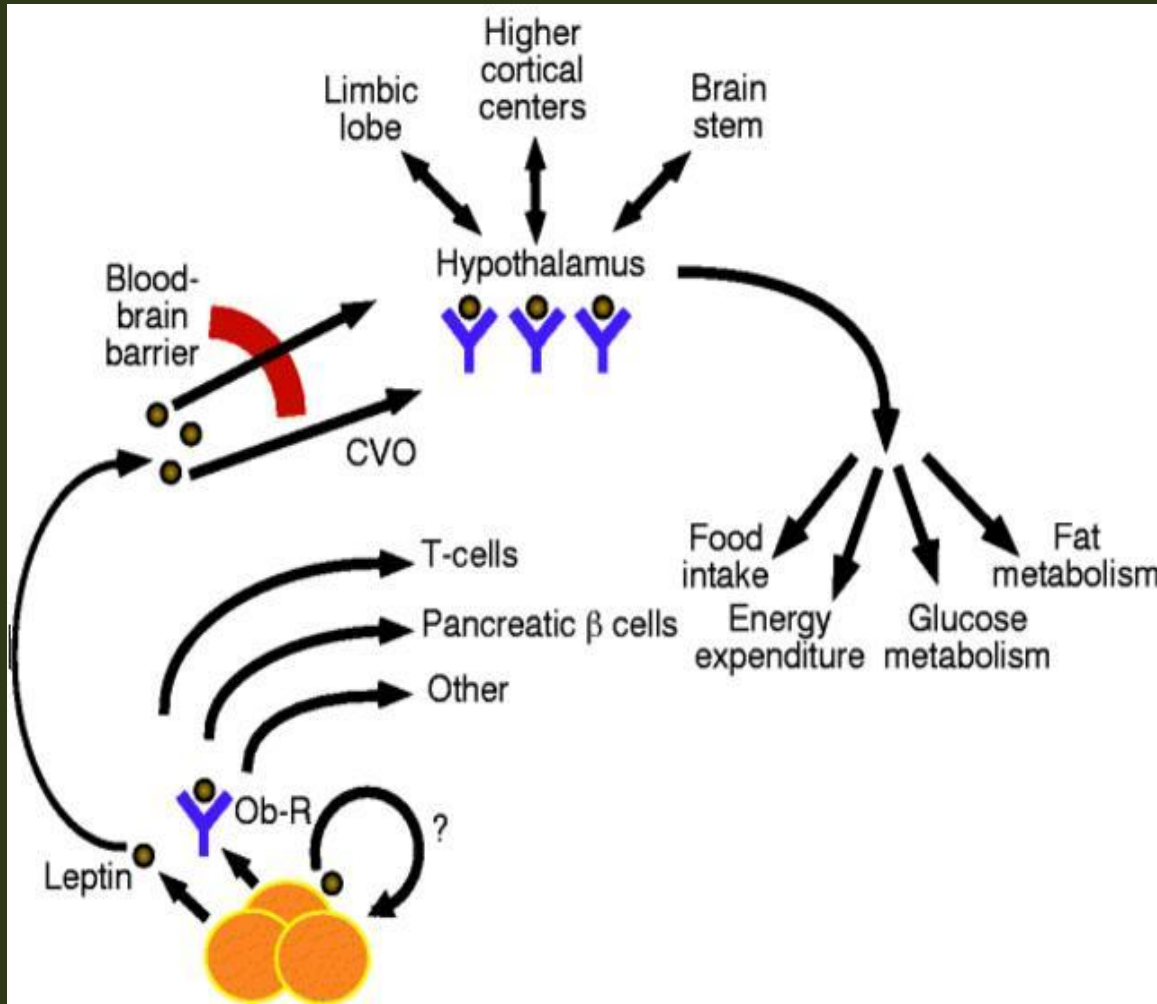


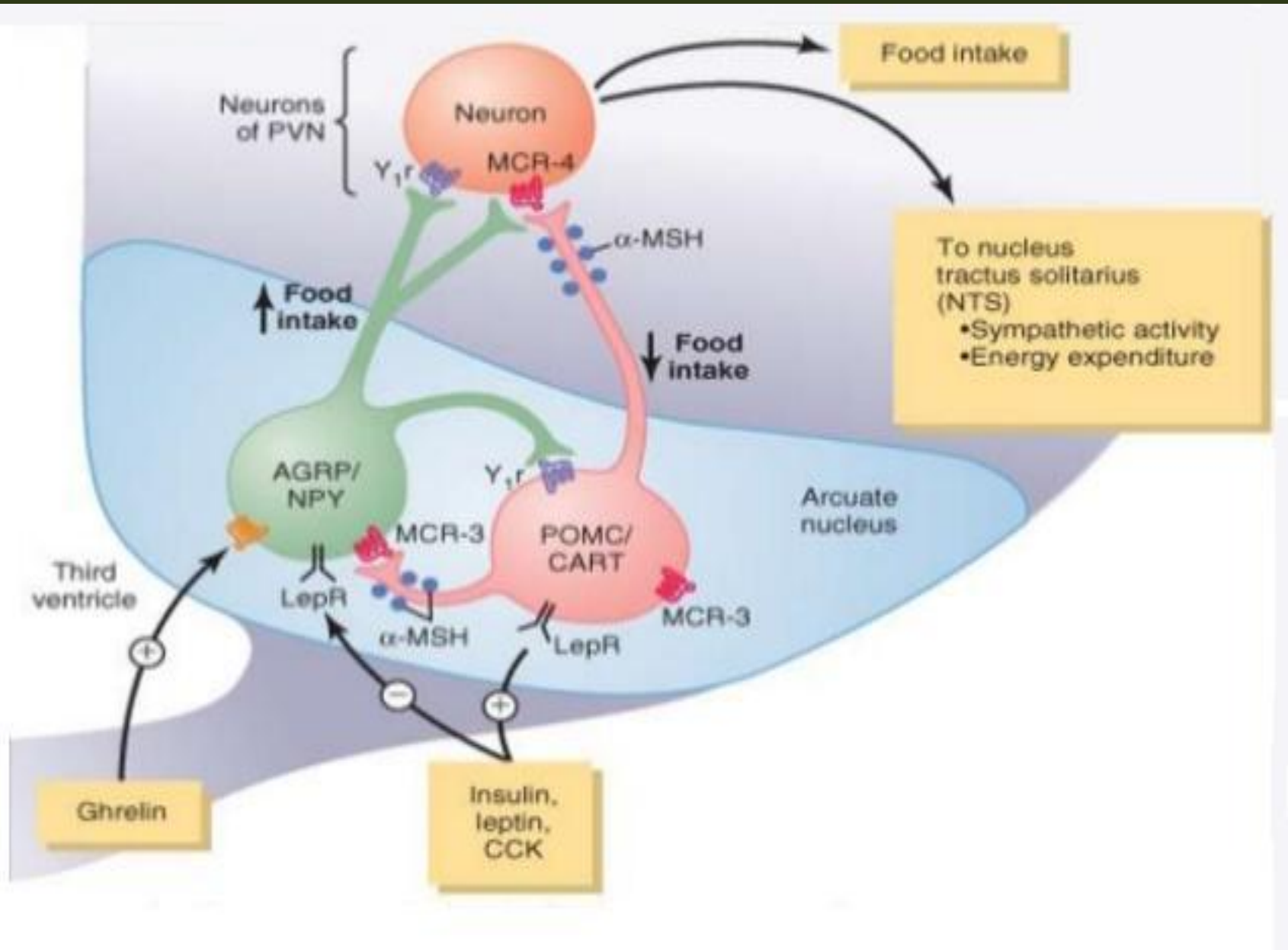
- Малі секреторні нейрони – ліберини і статини
- Великі секреторні нейрони – вазопресин, ОКСИТОЦИН

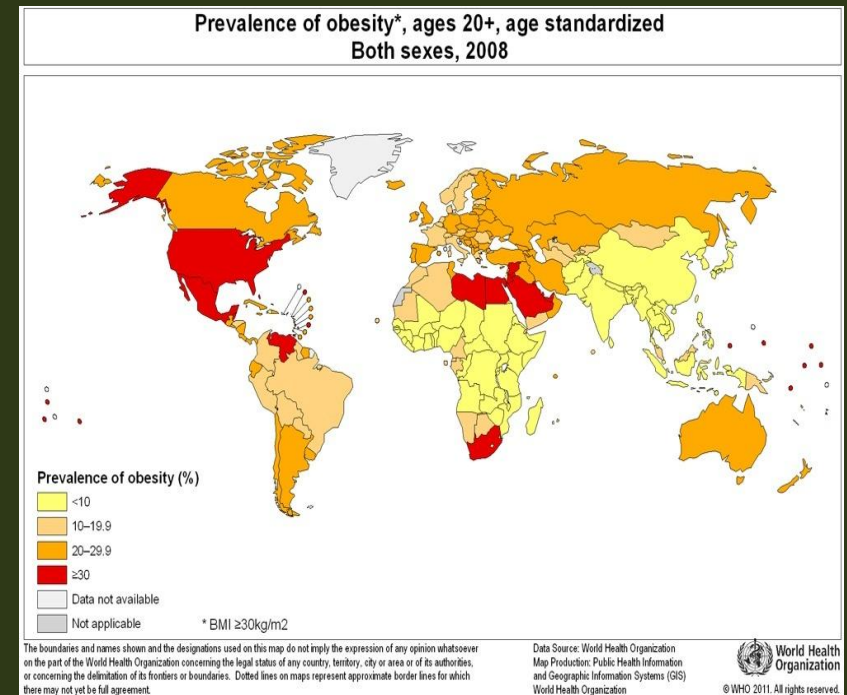
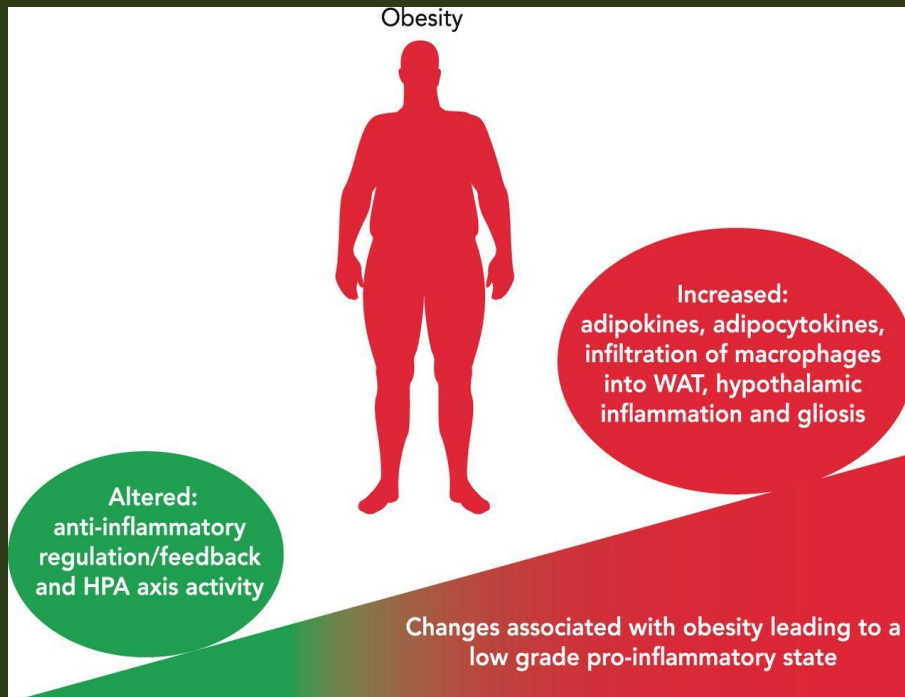
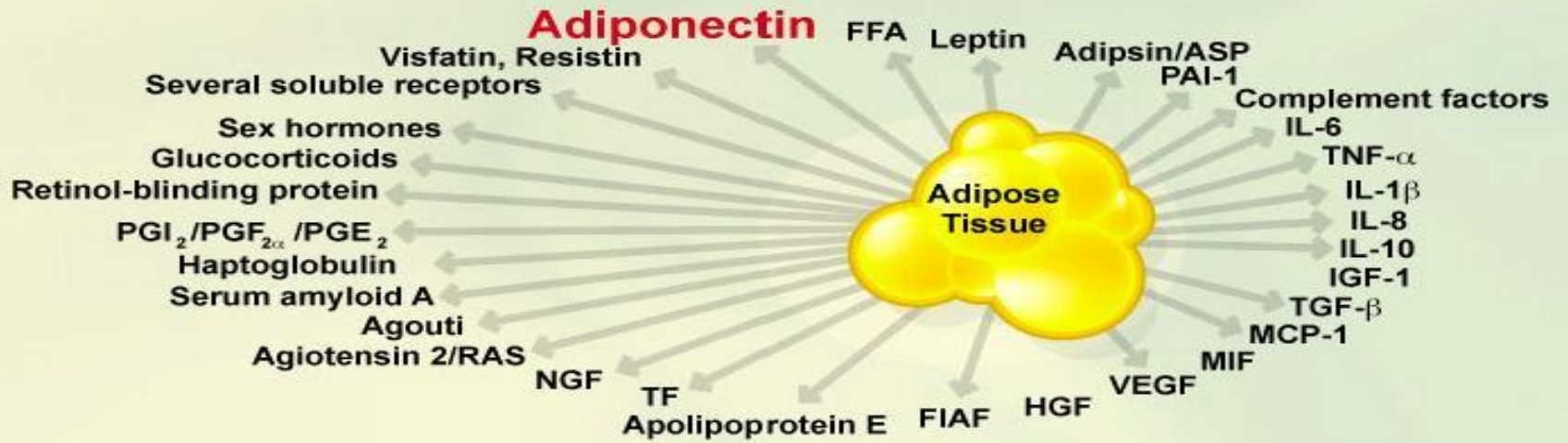
Порушення харчової поведінки



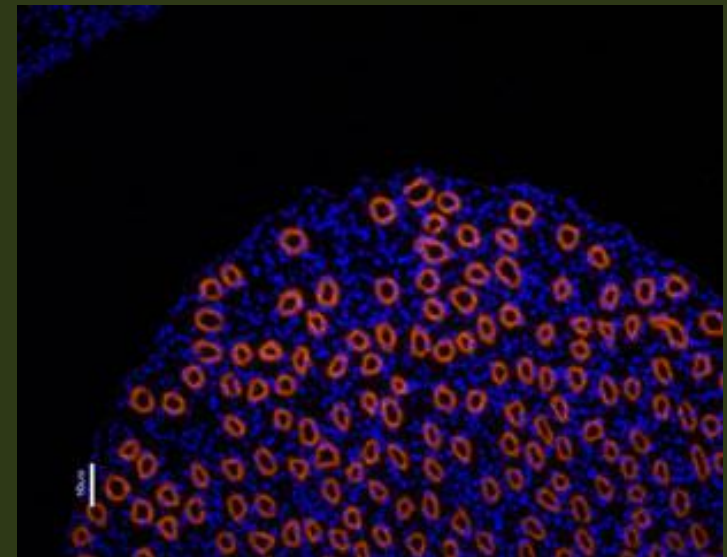
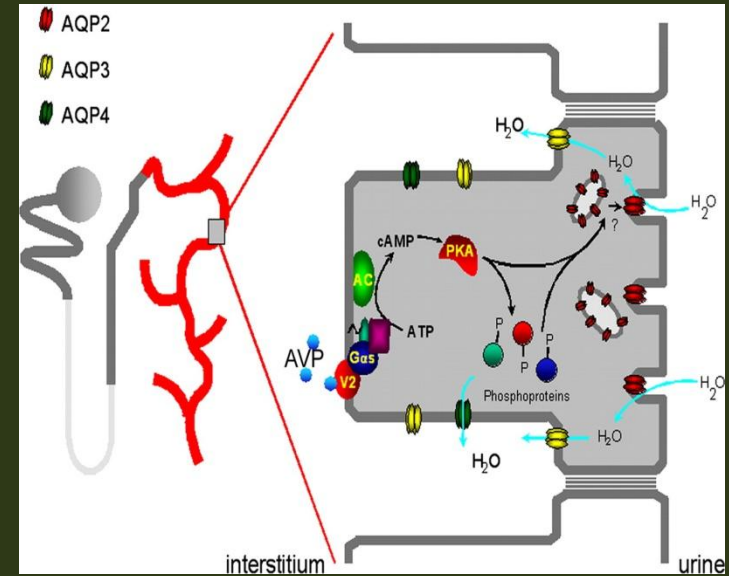
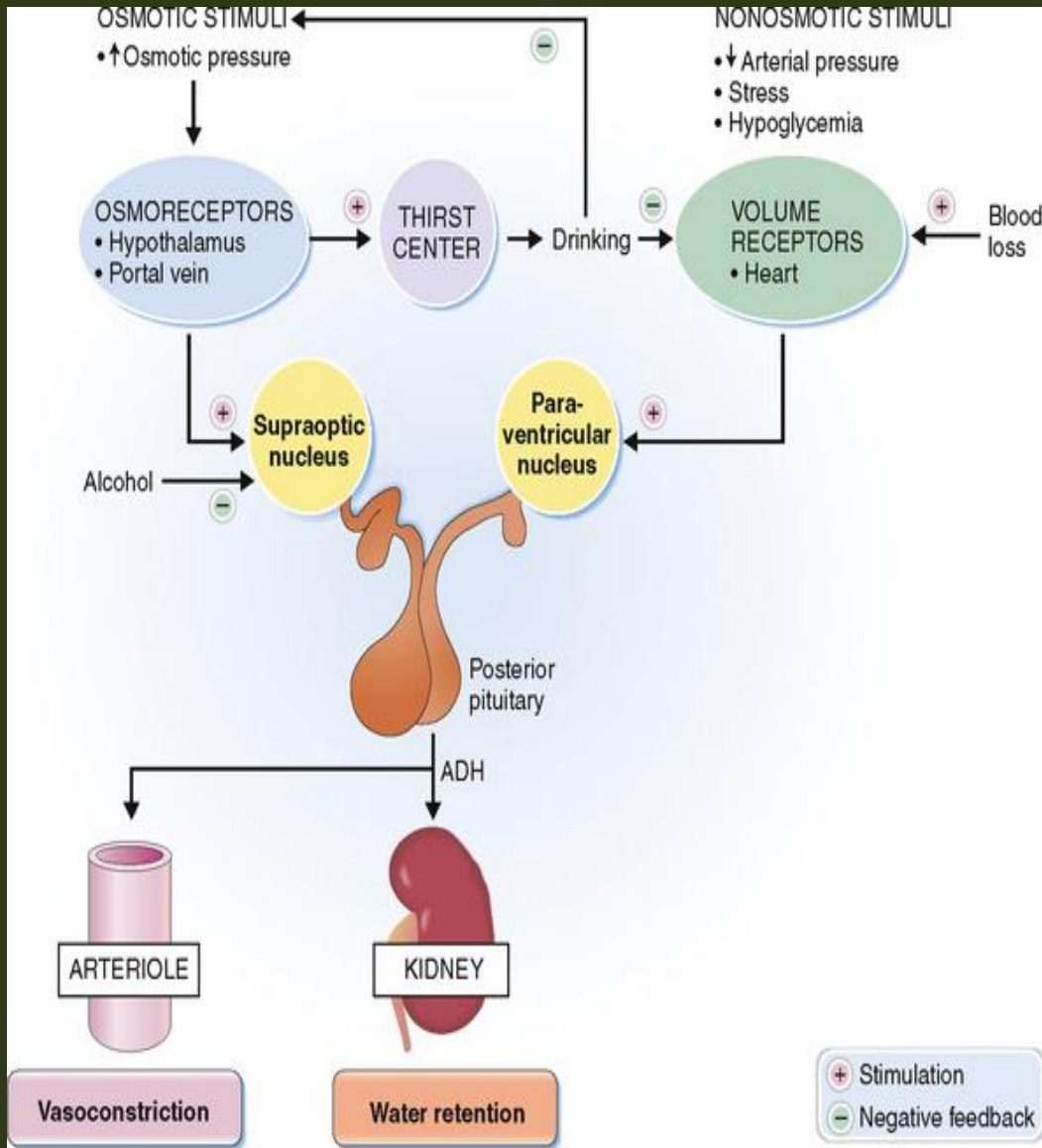






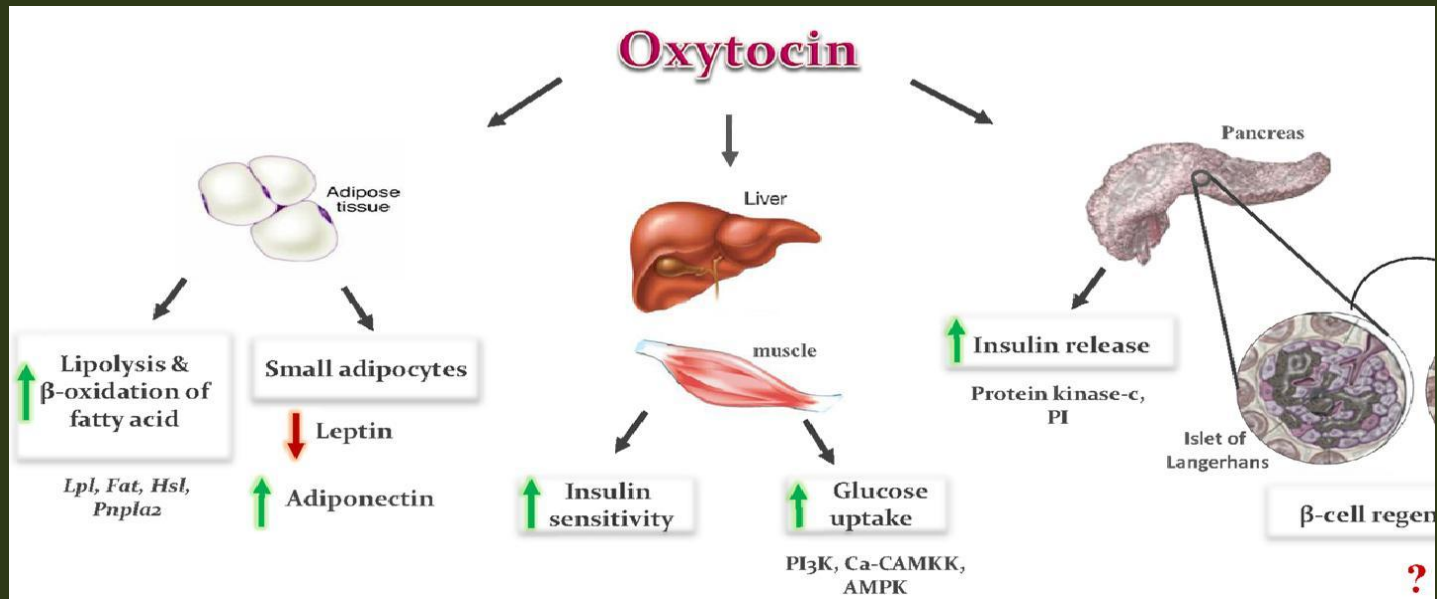


Вазопресин



ОКСИТОЦИН

- Лактація (скорочення клітин МЗ)
- Стимулювання скорочень матки



Men's sexual response to female partner's intranasal oxytocin administration for hypoactive sexual desire disorder: an open prospective cohort study

Dana A. Muin, M.D., M.Sc., Safoura Sheikh Rezaei, M.D., Max Tremmel-Scheinost, M.D., Mohamed Salama, Ph.D., M.D., Anton Luger, M.D., Michael Wolzt, M.D., Peter W. Husslein, M.D., Michaela Bayerle-Eder, M.D.



Hormones and Behavior

Available online 1 February 2017

In Press, Corrected Proof — Note to users

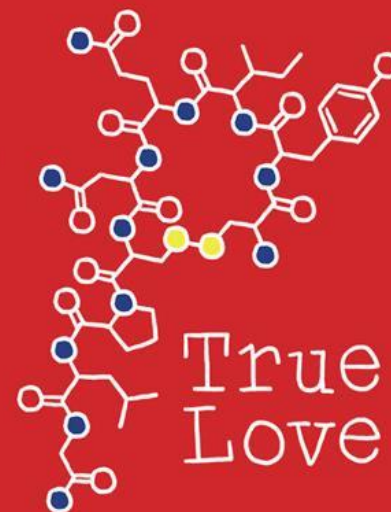


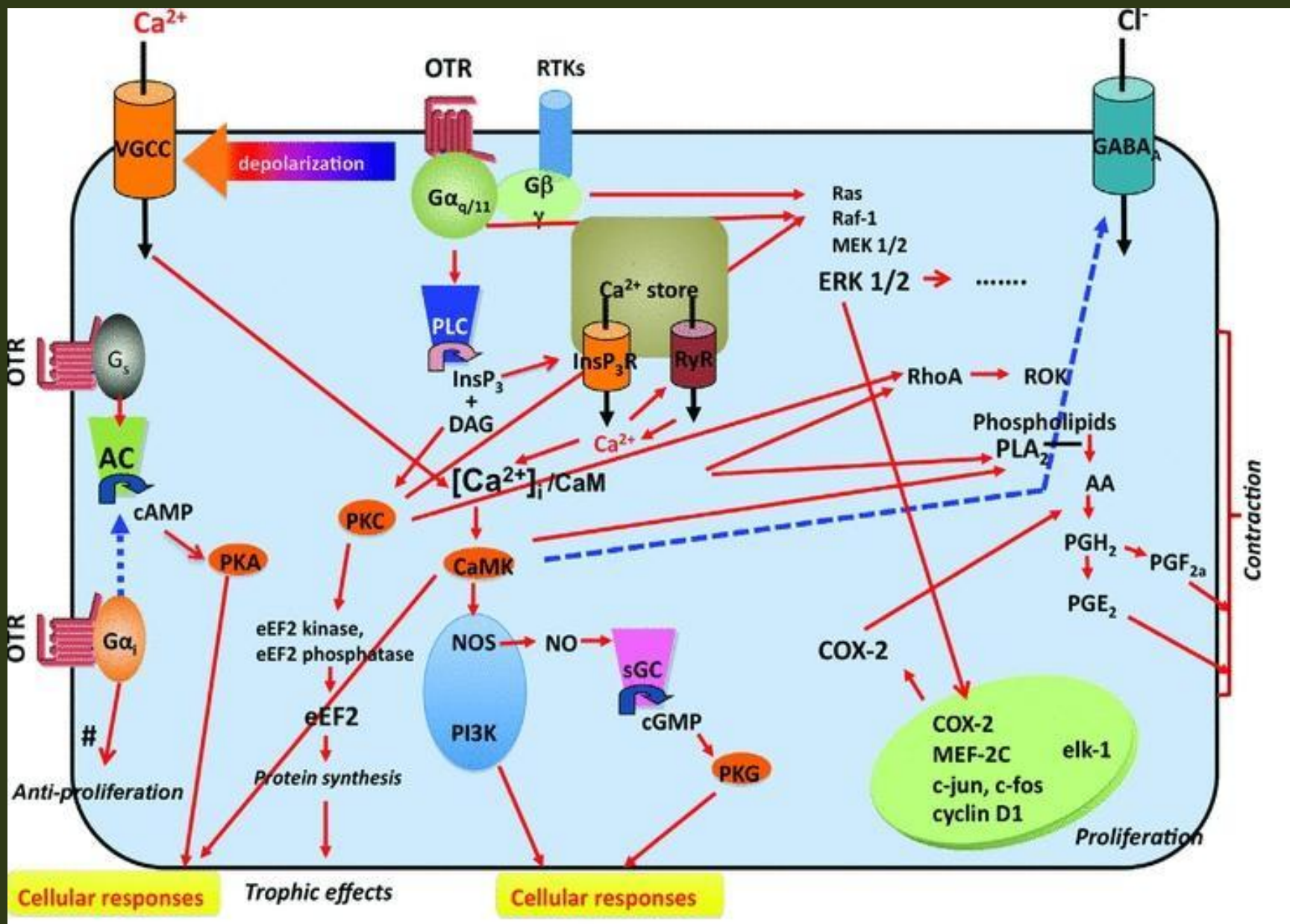
Intranasal oxytocin, but not vasopressin, augments neural responses to toddlers in human fathers

Ting Li^a, Xu Chen^{a, b}, Jennifer Mascaro^f, Ebrahim Haroon^b, James K. Rilling^{a, b, c, d, e},  

[Show more](#)

Терморегуляція
циркадні ритми
порушення
емоційної
сфери
порушення
ВЕО
нестабільна
вегетативна
регуляція





Cellular responses

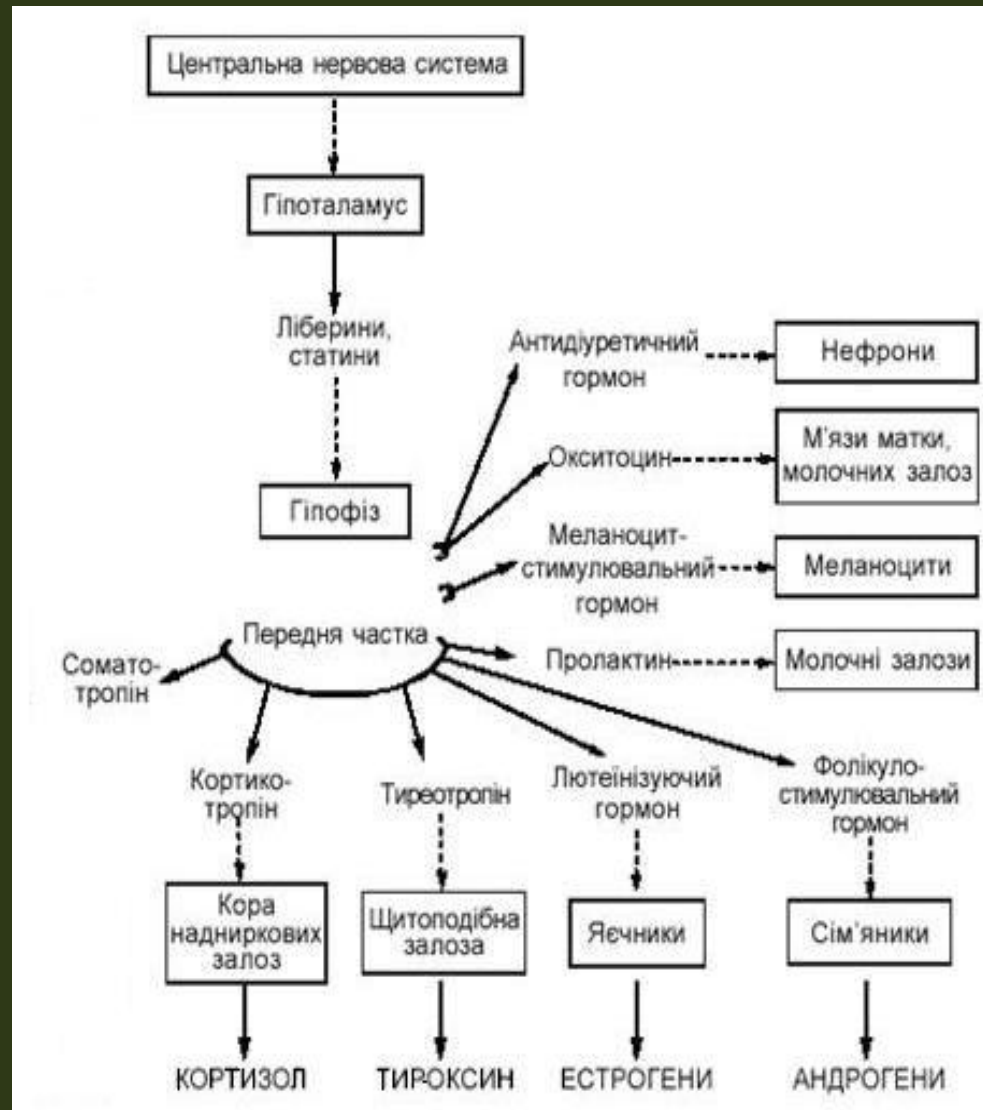
Trophic effects

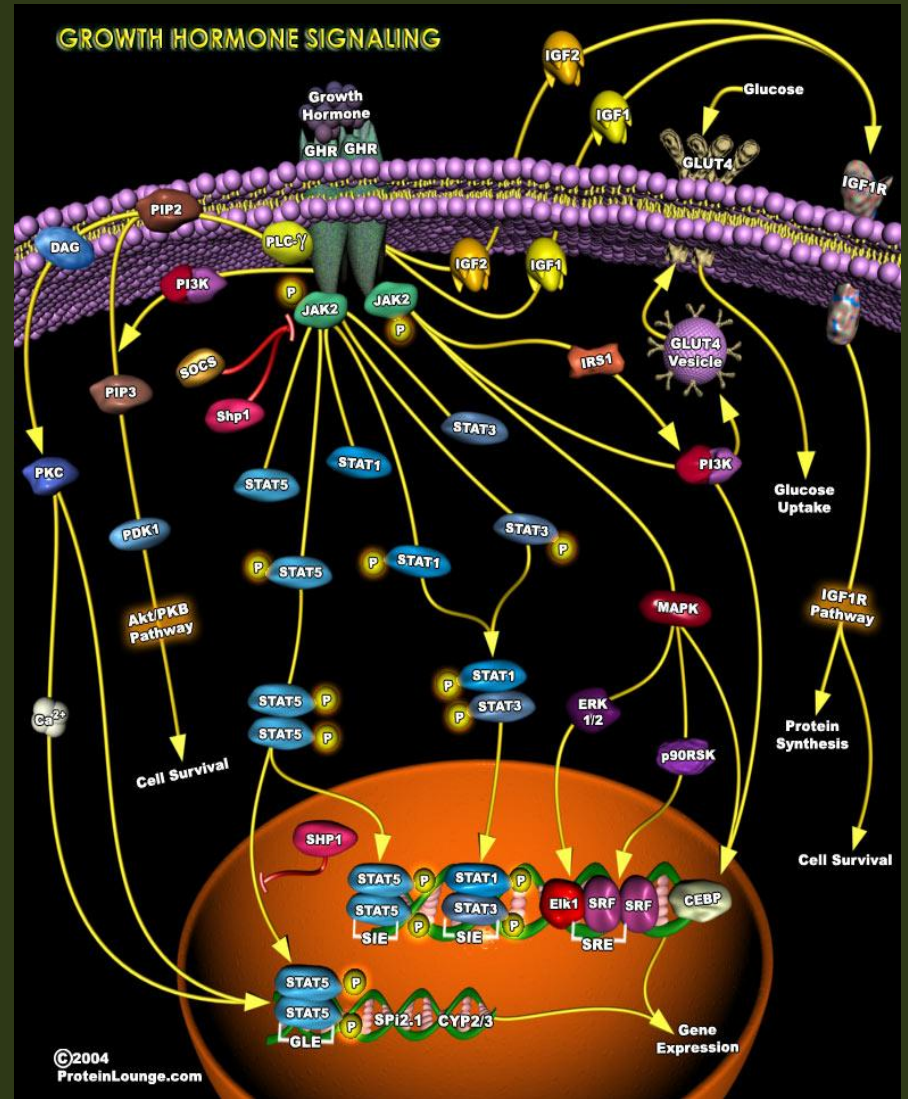
Cellular responses

Contraction

Proliferation

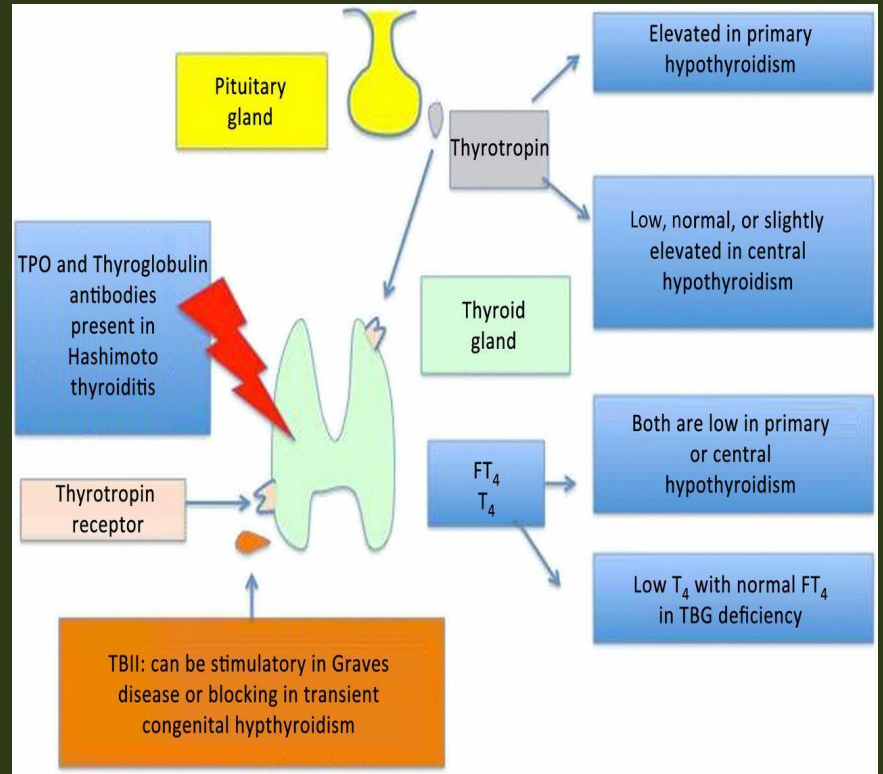
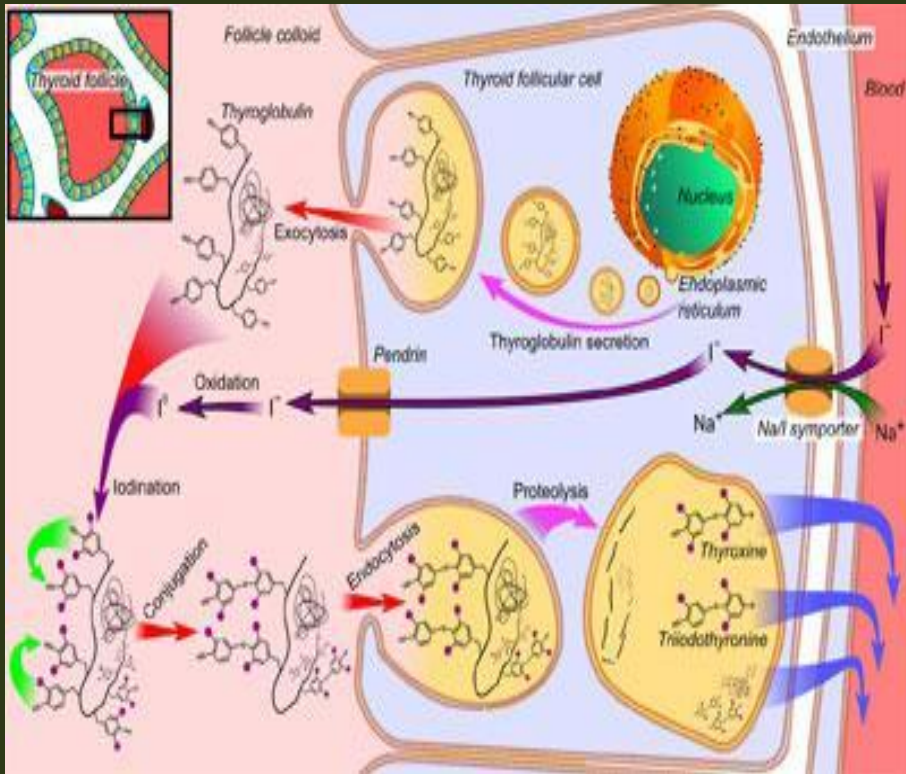
Гіпофіз: тропні гормони

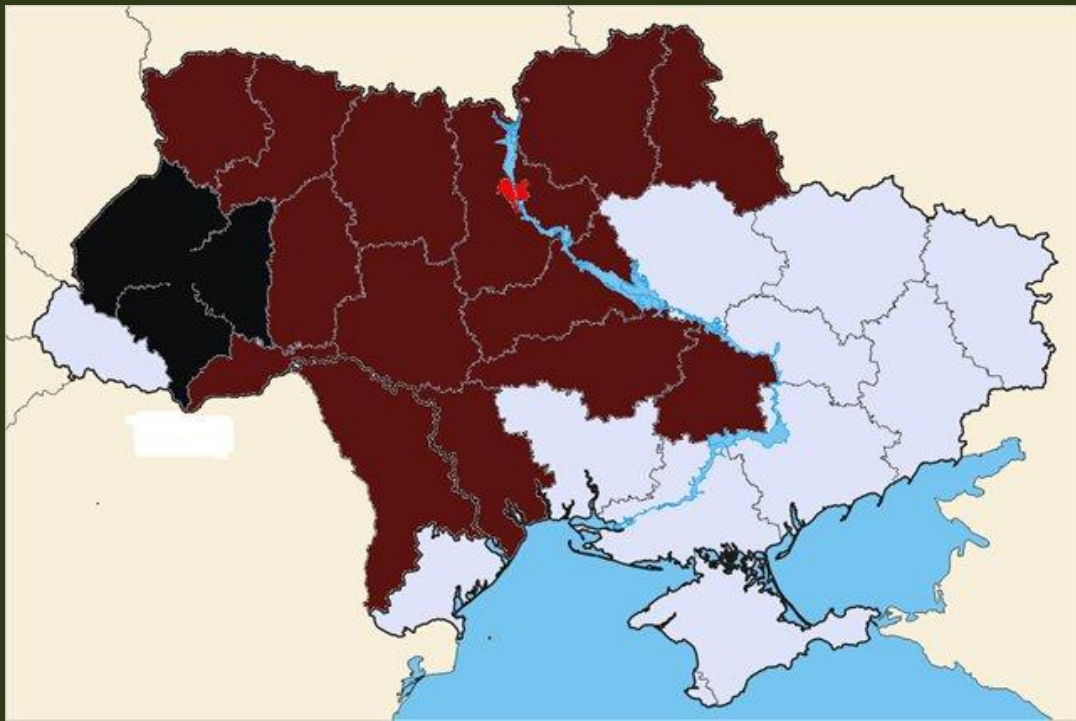




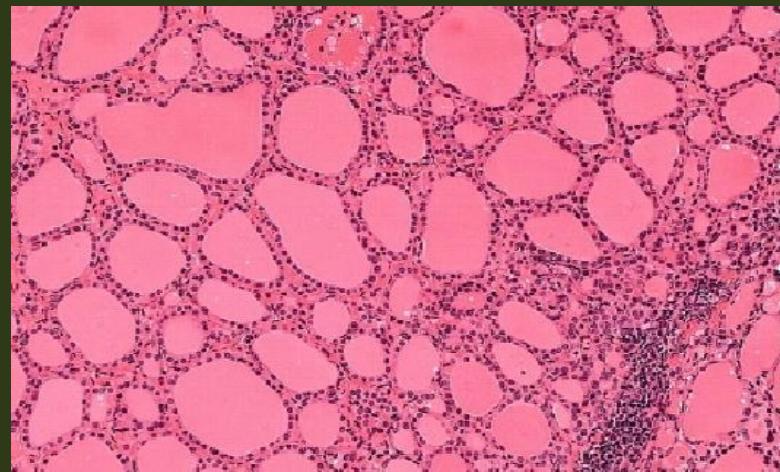
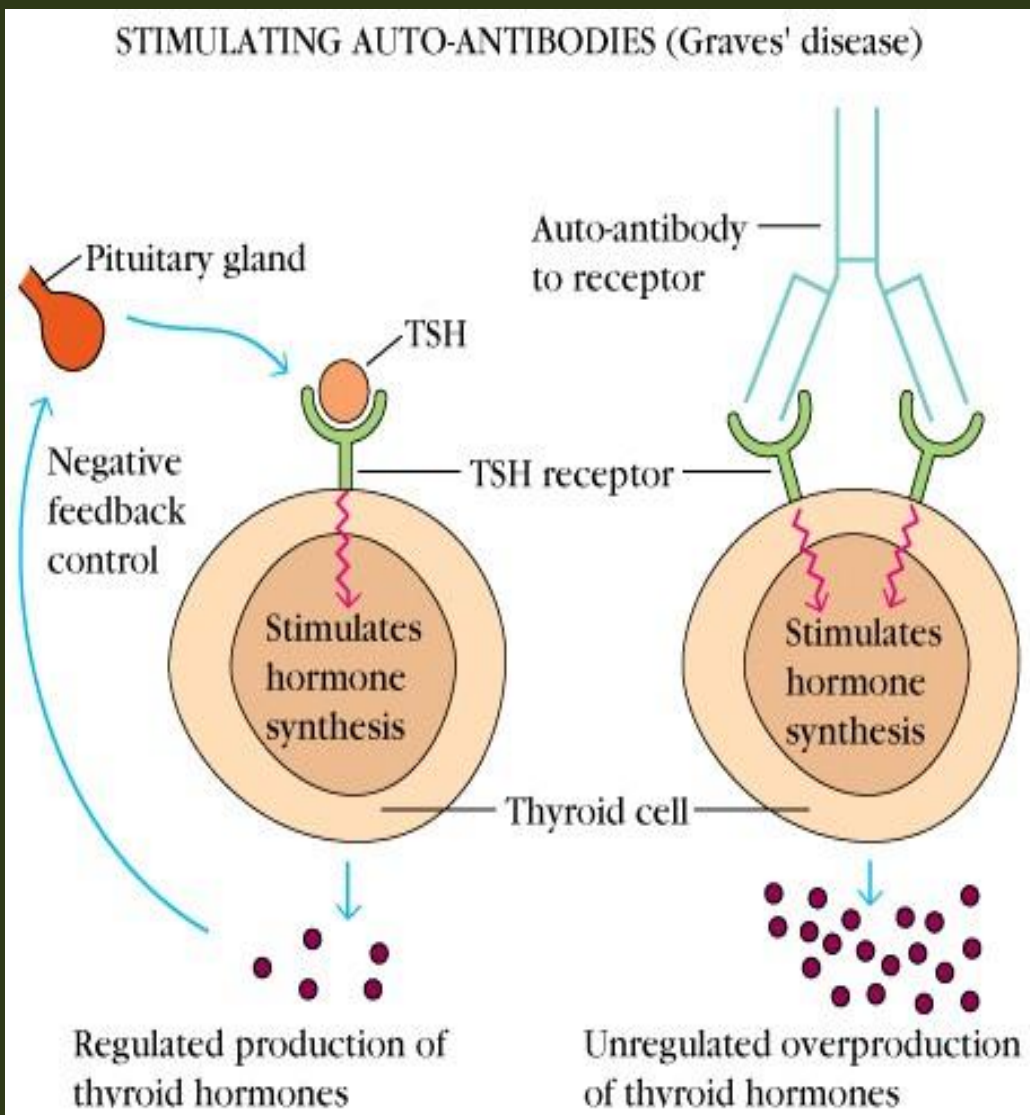


Тиреотропний гормон

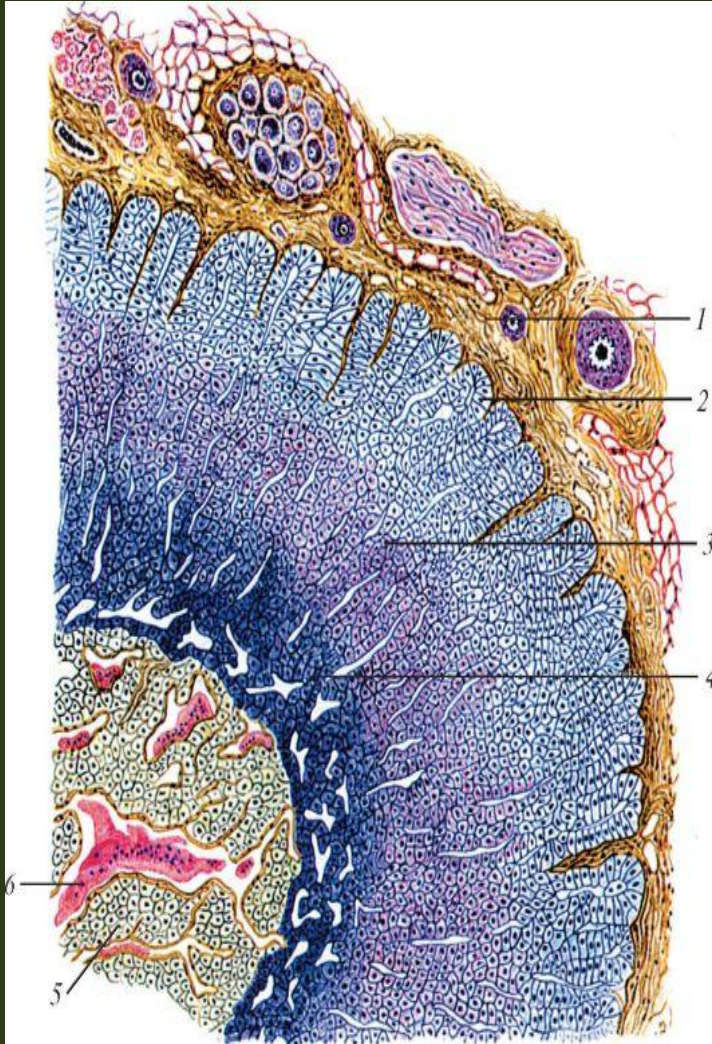




Хвороба Базедова

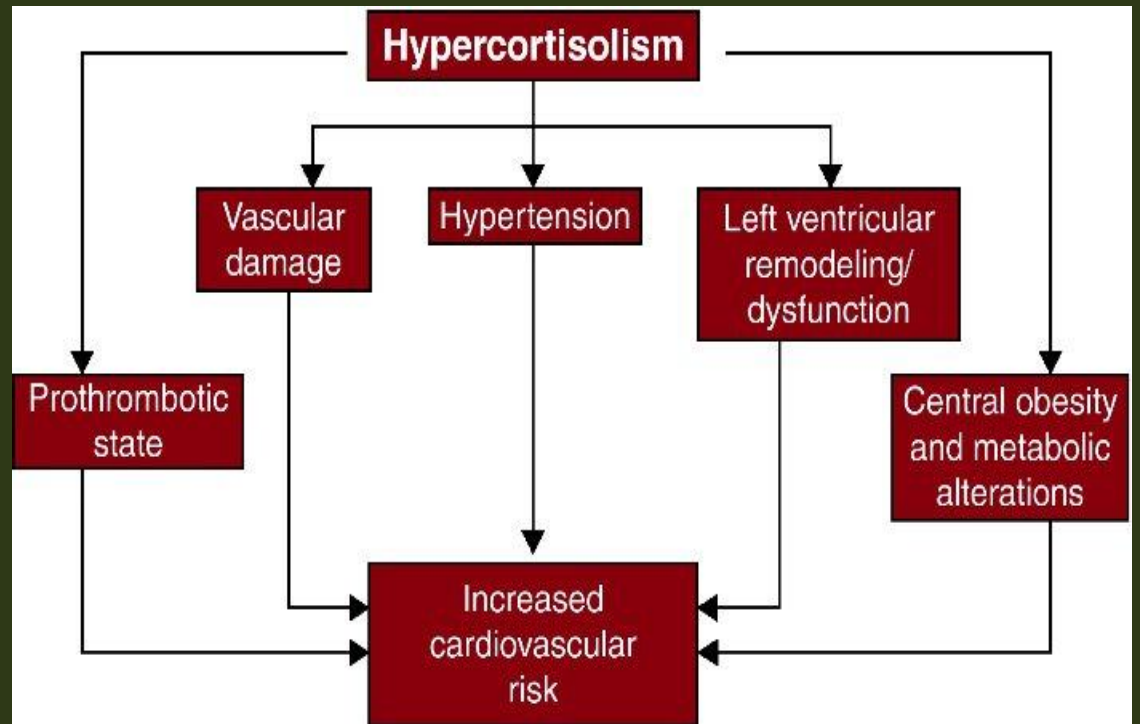


Наднирники

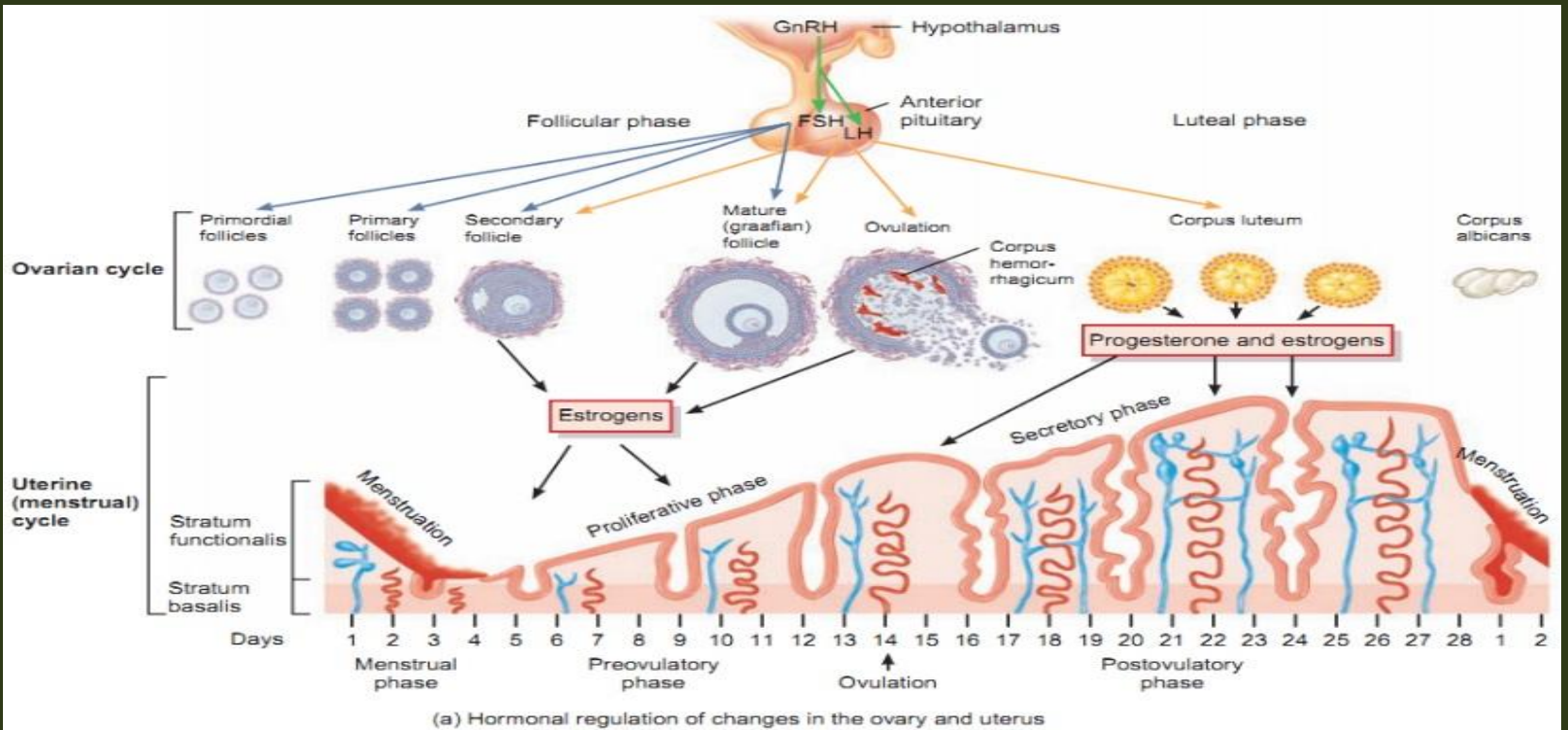


- Мінералокортикоїди
- Глюкокортикоїди
- Статеві гормони
- Катехоламіни
- Регуляторні пептиди

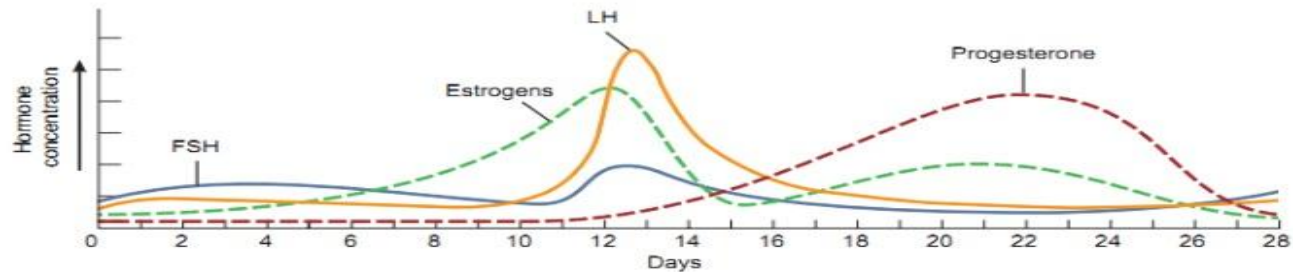
Хвороба Іценка-Кушинга



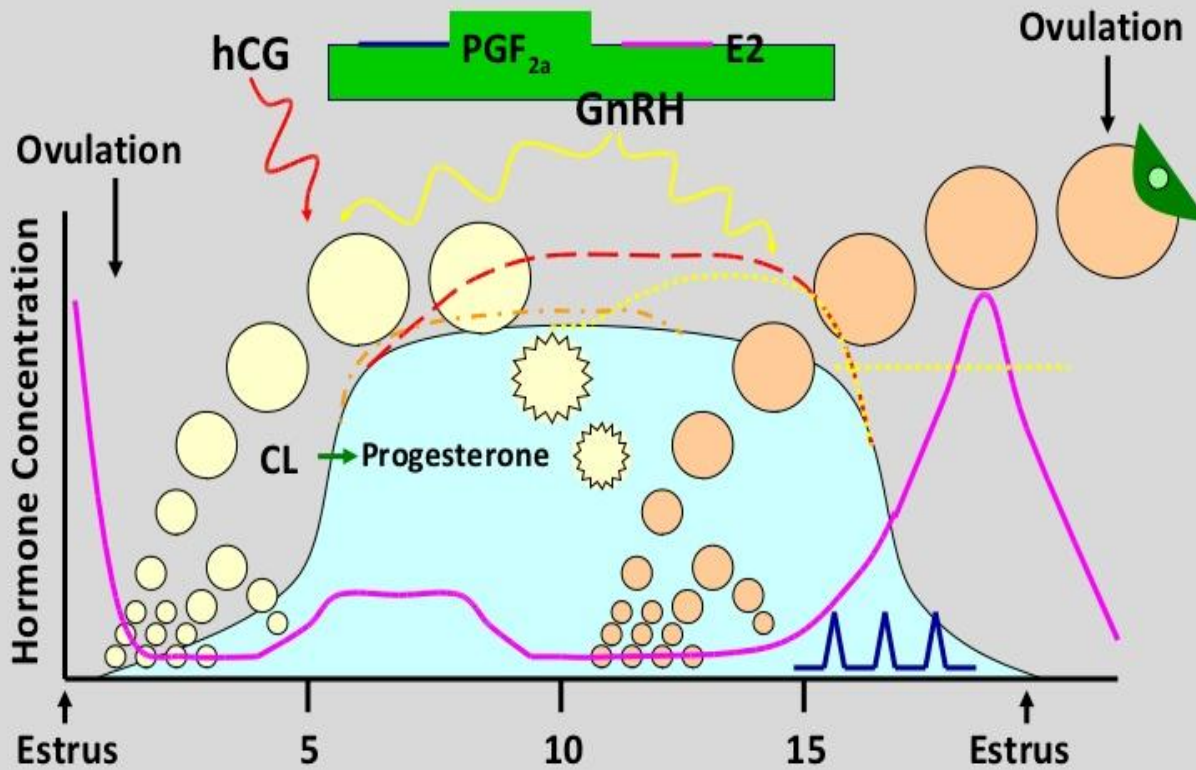
Менструальний цикл



(a) Hormonal regulation of changes in the ovary and uterus



Estrous Cycle

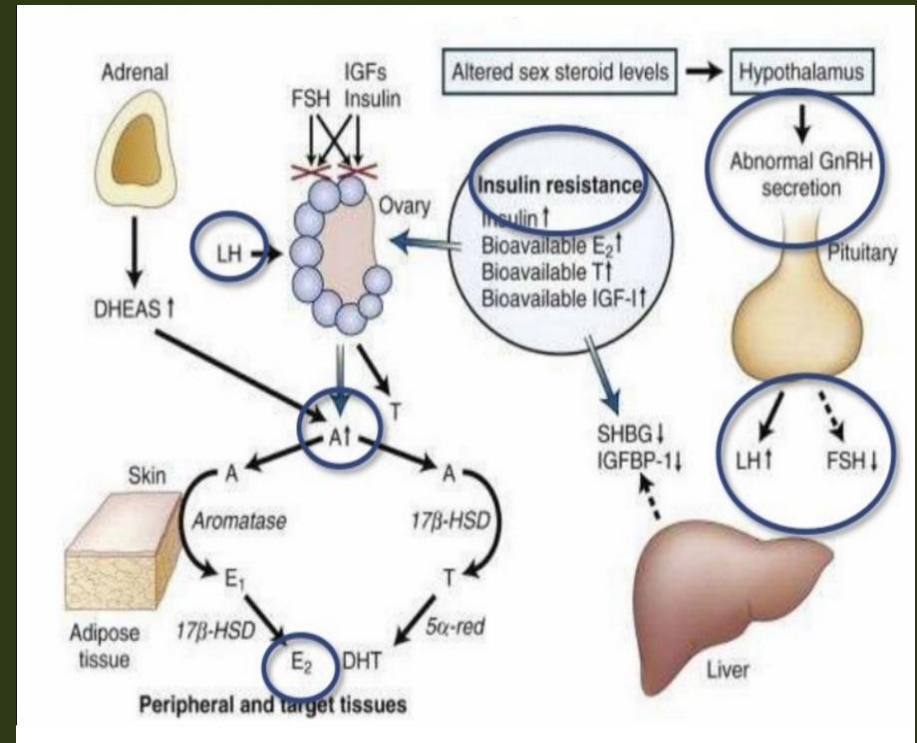


Courtesy of W. W. Thatcher





Синдром Штейна-Левентала





Мир
опять
цветами
оброс,
у мира
весенний
вид.
И вновь
встает
нерешенны
й вопрос -
о женщинах
и о любви
В. Маяковский