

# Neuroendocrinology

Neuroendocrinology is the study of the interaction between the nervous system and the endocrine system, including the biological features of the cells involved, and how they communicate. The nervous and endocrine systems often act together in a process called neuroendocrine integration, to regulate the physiological processes of the human body. Neuroendocrinology arose from the recognition that the brain, especially the [hypothalamus](#), controls secretion of pituitary gland hormones, and has subsequently expanded to investigate numerous interconnections of the endocrine and nervous systems.

The neuroendocrine system is the mechanism by which the hypothalamus maintains homeostasis, regulating reproduction, metabolism, eating and drinking behaviour, energy utilisation, osmolarity, and blood pressure.

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