

# Neural Regulation in the Vertebrate Endocrine System

## - Neuroendocrine Regulation

Springer - The neuroendocrine system of invertebrates: a developmental and evolutionary perspective in: Journal of Endocrinology Volume 190 Issue 3 ()

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Tags: #Neural #regulation #of #glucose  
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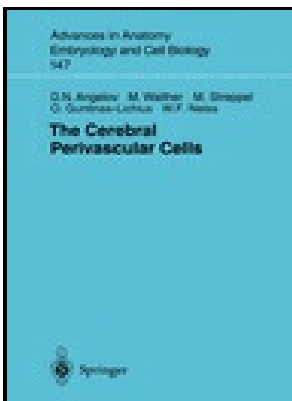
**Neural regulation in the vertebrate endocrine system : neuroendocrine regulation**

Gonadotropin-inhibitory-hormone GnIH a key regulator of the HPG axis, may also have a role in sex change, but as yet is poorly studied. The second mechanism of cell—cell communication defines the endocrine system. The endocrine system in bilaterian animals consists of multiple specialized cell populations, sometimes compacted into glands that are found in all parts of the body, and are derived from all three germ layers , , ,.

**Neural Regulation in the Vertebrate Endocrine System**

See also: Feedback systems The endocrine system is regulated by control mechanisms, which are the means by which homeostasis is achieved. Chemical classes of hormones Mechanism of hormone action Hormone

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transport Hormone receptors Endocrine disrupting chemicals. Although low doses of estradiol shifted the peak of the cocaine dose—effect curve to the left in some monkeys, these effects were not estradiol dose dependent.

### Nervous System Part 3: Peripheral Nervous System/Endocrine Control

Importantly, ARC neurons project to the PVN, and leptin administration stimulates the HPT axis , — , suggesting that decreased leptin levels during fasting suppress the thyroid axis ,. Vertebrate counterparts with similar function have so far not been described.

### Chapter 45

Like GnRH, LH and FSH release is irregular and pulsatile. Glucocorticoids and testosterone show significant increases during both mating and birth seasons in male red fronted lemurs.

### Handbook of Neuroendocrinology

In Sydor A, Brown RY ed. Two additional factors, Glass GI and Giant Gt , are centrally involved in Drosophila CC development, since loss of either of them results in the absence of this structure.

### Chapter 45

These two neuronal systems project axons to the median eminence, where they release their into portal blood vessels for transport to the anterior pituitary.

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