

Neural Regulation in the Vertebrate Endocrine System

- Neuroendocrine Regulation

Springer - Chapter 45

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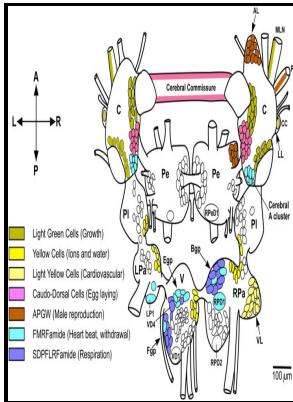
Endocrine glands have a rich blood supply through which hormones travel to reach their target organs. Figure 4: Adrenalin epinephrine vs.

Endocrine system (vertebrate)

Here, a multitude of signals in the form of neurotransmitters chemically couple networks of neurons at specialized cell-cell contacts, the synapses. One of the neuropeptides reaching the CA was identified as allatostatin, which inhibits JH release.

Nervous System Part 3: Peripheral Nervous System/Endocrine Control

The medial preoptic area does the fine tuning of energy balance regulation of food intake in response to alterations in the temperature, locomotor activity and sleep



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wakefulness. The rostral VLM, LC, and PVN provide direct innervation of the IML and are thought to initiate sympathetic responses. This may involve a variety of biochemical processes, including conversion of an inactive form of an enzyme into an active one, stimulation of critical enzymatic pathways, increased transport of glucose or amino acids into cells, or synthesis of new proteins.

Neural Regulation in the Vertebrate Endocrine System

Available evidence suggests that obesity and decreased body weight, resulting from lesions of the hypothalamic 'satiety' and 'feeding' centres respectively, are not only due to altered food intake, but also to derangement in glucose homeostasis.

Neuroendocrinology

Once T₃ enters TRH neurons, it acts via TH receptors TR that act as ligand-dependent transcriptional factors. It is well known that local TH concentration may vary among different tissues, at least in part due to the action of deiodinases.

The neuroendocrine system

A system of chemical communication among cells in vertebrate animals. It is true that in some situations e. Outside the testis, LH receptors are widespread and active, especially in the brain.

Neuroendocrine Regulation

These findings in rhesus monkeys are consistent with clinical studies in which estradiol failed to enhance responses to d-amphetamine Justice and de Wit, 2000a,b. The classical vertebrate endocrine system consists of a group of discrete glands that secrete unique products hormones into the bloodstream.

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In many avian species, territorial behavior shows a similar seasonal pattern.

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