

Melatonin And The Mammalian Pineal Gland 1st Edition

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Melatonin And The Mammalian Pineal

Abstract. The pineal hormone melatonin is secreted with a marked circadian rhythm. Normally, maximum production occurs during the dark phase of the day and the duration of secretion reflects the duration

of the night. The changing profile of secretion as a function of daylength conveys photoperiodic information for the organization of seasonal rhythms in mammals.

Melatonin and the Pineal Gland: Influence on Mammalian ...

Traditionally an enigmatic organ, the pineal gland is now understood to contribute significantly to neuroendocrine regulatory mechanisms. Its main mode of action is the secretion of melatonin, which is closely linked to light and dark periods. For the first time, literature on this gland is drawn together into a concise, coherent review.

Melatonin and the Mammalian Pineal Gland: Amazon.co.uk ...

Melatonin and the Mammalian Pineal Gland is an extremely clear summary of the state of the field and simply hums with Arendt's own enthusiasm for what has yet to be discovered ... Lerner, now long since retired from Yale, has written a brief forward.

Melatonin and the Mammalian Pineal Gland | Josephine ...

The pineal hormone melatonin is secreted with a marked circadian rhythm. Normally, maximum production occurs during the dark phase of the day and the duration of secretion reflects the duration of...

Melatonin and the pineal gland: Influence on mammalian ...

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Melatonin and the Mammalian Pineal Gland is an extremely clear summary of the state of the field and simply hums with Arendt's own enthusiasm for what has yet be discovered. For example, we don't...

Hormone of the night: Melatonin and the Mammalian Pineal ...

In this respect the isolation and characterization of melatonin by Lerner et al. (1) in 1958 constituted a landmark inasmuch as it was the first substance to be characterized in the pineal gland that reproduced many of the effects of pineal extracts or reversed the endocrine sequelae of pinealectomy.

Melatonin. A Mammalian Pineal Hormone* | Endocrine Reviews ...

In vertebrate biology, AANAT plays a unique time-keeping role as the molecular interface between the environment and the hormonal signal of time, melatonin. This chapter describes the mammalian AANAT regulatory system, which includes the retina, neural structures, transsynaptic processes, and molecular events.

Control of melatonin synthesis in the mammalian pineal ...

The day/night rhythm in melatonin production is a characteristic feature in vertebrate physiology. This hormonal signal reliably reflects the environmental light conditions and is independent of behavioral aspects. In all mammalian species, melatonin production is regulated by norepinephrine, which is released from sympathetic nerve fibers exclusively at night.

Mechanisms Regulating Melatonin Synthesis in the Mammalian ...

Melatonin is an indole produced by the pineal gland at night under normal light or dark conditions, and its levels, which are higher in children than in adults, begin to decrease prior to the ...

Mechanisms Regulating Melatonin Synthesis in the Mammalian ...

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Melatonin and the Mammalian Pineal Gland: Author: Josephine Arendt: Edition: illustrated: Publisher: Springer Science & Business Media, 1994: ISBN: 0412536005, 9780412536007: Length: 332 pages:...

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Melatonin and the Mammalian Pineal Gland by Arendt ...

Its 9 chapters cover (1) an introduction to melatonin and the mammalian pineal gland, (2) structure of the pineal gland, (3) biochemistry of the pineal, (4) light=dark control of melatonin synthesis, (5) role of the pineal in photoperiodic seasonal functions, (6) role of the pineal and melatonin in circadian rhythms, (7) human physiology and pathology of the pineal, (8) therapeutic potential ...

Melatonin and the Mammalian Pineal Gland: Arendt

Rhythmic production of melatonin by the mammalian pineal occurs in response to noradrenergic stimulation which produces a cascade of biochemical events within the pinealocyte. In the rat, massive changes in NAT activity result from an increase in intracellular c-AMP levels produced by a synergistic interaction whereby an $\alpha 1$ activation amplifies β -adrenergic stimulation.

Melatonin biosynthesis in the mammalian pineal gland ...

The direction of change in daylength provides the seasonal time cue for the timing of puberty in many mammalian species. The pattern of melatonin secretion from the pineal gland transduces the environmental light-dark cycle into a signal influencing the neuroendocrine control of sexual maturation.

Pineal melatonin rhythms and the timing of puberty in ...

In the mammalian pineal gland, information on environmental lighting conditions that is neuronally encoded by the retina is converted into nocturnally elevated synthesis of the hormone melatonin. Evolutionary pressure has changed the morphology of vertebrate pinealocytes, eliminating direct photoreception and the endogenous clock function.

The mammalian pineal gland: known facts, unknown facets ...

In mammals, the pineal gland is the sole endocrine source of melatonin, which is secreted according to daily and seasonal patterns. This mini-review synthesizes the established endocrine actions of melatonin in the following temporal contexts.

Temporal organization of pineal melatonin signaling in ...

Mechanisms Regulating Melatonin Synthesis in the Mammalian Pineal Organ | Semantic Scholar The day/night rhythm in melatonin production is a characteristic feature in vertebrate physiology. This hormonal signal reliably reflects the environmental light conditions and is independent of behavioral aspects.