Molecular Clocks and Light Signalling (Novartis Foundation Symposia)

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The ability at the molecular level to keep track of time is a property shared by organisms ranging from the simplest unicells to humans. The primary feature of these biological clocks is their ability to entrain to environmental stimuli. The dominant stimulus comes from environmental light cues, which requires the existence of photopigments sensitive to light. The exact identity of the molecules involved in circadian photoreception has remained elusive.

The classical view of the circadian system is of diverse physiological rhythms regulated by a centralized clock structure. This book presents evidence that challenges this view. Experiments in both vertebrate and invertebrate systems demonstrate that the circadian timing system is dispersed throughout the animal and suggest that possibly every cell contains an autonomous clock mechanism. A variety of tissues and cells contain have been shown to maintain an oscillation when placed in vitro and removed from any external cues or signals that originate from the classical clock structures and/or the environment.

This book draws together contributions from an international and interdisciplinary group of experts whose work is focused on all aspects of the topic. Coverage includes the mechanisms of light signalling to the vertebrate clock, the connections between central and peripheral clocks, circadian gene expression patterns and output pathways of clock mechanisms.

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