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## Suprachiasmatic Nucleus

**Suprachiasmatic Nucleus**: Executive Editor of the New York Psychiatric Institute/Professor of Psychiatry Donald E. Klein, M.D. The suprachiasmatic nucleus (SCN) is the putamen’s central pacemaker, with a major role in the generation and timing of circadian rhythms. The SCN acts as a hub for the integration of sensory and behavioral inputs that converge to shape the circadian program. Dysfunction of the SCN underlies a variety of human and animal pathologies, including sleep disorders, neurodegenerative diseases, obesity, mood disorders, and obesity.

**Handbook of Behavioral State Control**: S.P. Lydiard, D. de Boer, and J.C. Aranda (2013) Handbook of Behavioral State Control: Cellular and Molecular Mechanisms provides the first comprehensive overview of the cellular and molecular mechanisms underlying the tonic and phasic control of behavioral states. This resource covers a broad range of topics, from the cellular and molecular basis of behavioral state control to the role of the brain in regulating sleep and wakefulness.

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**Circadian Rhythms and Biological Clocks**: J. Brown (1995) Circadian rhythms, the biological oscillations based around our 24-hour clock, have a profound effect on human nature and the environment. To understand the processes by which the brain acts as an endocrine organ, not only to control hormonal functions, but also to coordinate and maintain the organism's energy rhythms.

**Endocrinology Adult and Pediatric**: A. Nieschlag, E. W. Behre, and D. Nieschlag (2015) Endocrinology Adult and Pediatric provides an up-to-date overview of the field of endocrinology. It covers the latest research and clinical developments in the field, with a focus on the biological and clinical aspects of hormone function.

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She holds a PhD degree in Animal Physiology and is involved in research and teaching at post-graduate level. Her area of research work is stress and environmental physiology. She has more than 50 publications, four technical bulletins, four manuals and many book chapters to her credit. She has successfully guided many postgraduate and PhD students. Her major research accomplishments are in microclimatic modification for alleviation of heat and cold stress, wind and for cooling systems for cows and buffaloes, and use of technology in small ruminants during dry period and early lactation in crossbred and indigenous cows for alleviating metabolic and heat stress and improved health and productivity. Studies are also done in heat stress phenomena of food less farm animals and pulmonary systems of cattle and buffaloes as a tool of exercise to oxygen in heat stress. Dr. R.C. Upadhyay is working as Head, Dairy Cattle Physiology Division at National Dairy Research Institute, Karnal (India). He graduated in Veterinary Sciences and obtained his PhD degree in Animal Physiology. His area of recent research is climate change, stress, and environmental physiology. His major research accomplishments are in climate change impact on fertility, growth and productivity in livestock. His work also involves studying methane conversion and emission factors for buffaloes, cattle and use of IPCC methodology for methane inventory of Indian livestock. Heat shock protein-70 expression studies in cattle and buffaloes are also done in his lab. Draught animal power evaluation, fatigue assessment, work-rest cycle and work limiting factors form the highlights of his work. Studies on partitioning of heat loss from skin and pulmonary system of cattle and buffaloes and electrocardiographic studies in cattle, buffalo, sheep and goat are also undertaken in his lab. He has more than 75 research papers, four books and several book chapters to his credit. Technologies developed and research done by him include methodology of indistinct measurement: open and closed circuit for cattle and buffaloes, inventory of methane emission from livestock using IPCC methodology; livestock stress index: thermal stress measurement based on physiological functions and draught power evaluation system and large animal treadmill system. He received training in Radiopharmaceuticals in medicine at Australian School of Nuclear Technology, Lucas Heights, NSW, Australia in 1985 and Use of radiotracers in radiometabolic investigations at CSIRO, Parkes, NSW, Australia, during 1985-86. He has guided several post-graduate and PhD students. He is recipient of Hari Om Ashram Award-1990 (ICAR) for outstanding research in animal sciences.

Handbook of Psychology, Biological Psychology - Michele Gallagher 2003-03-11 includes established and cutting-edge developments. Presents the work of an international group of experts. Presents the nature, origin, implications, an future course of major unresolved issues in the area.