

Paperback Re-issue

Rodents are the predominant experimental animals found in life-sciences research laboratories. The body temperature of a rodent is markedly affected by surgical, chemical, or environmental manipulation. Because temperature regulation is controlled essentially by a "holistic" regulatory system, meaning that its responses affect the activities of all other physiological and behavioral processes, it is clear that researchers working with rodents must be familiar with thermoregulatory physiology.

With the help of extensive data tables and figures, this book explains the key facets of rodent thermal physiology, including neurological control, metabolism, thermoregulatory effectors, core and brain temperatures, circadian rhythm, developmental patterns and aging, temperature acclimation, and gender and intraspecies variations. There is a novel chapter on the effects of trauma, toxic chemicals, and other factors. Mouse, gerbil, hamster, rat, and guinea pig are the rodents discussed. The book should therefore find use in government, academic, or industrial laboratories whose researchers are working with rodents.

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