

## *Hibernation And Torpor In Mammals And Birds*







### **Hibernation And Torpor In Mammals**

Hibernation and Torpor in Mammals and Birds explores the physiological factors that control hibernation and torpor in birds and mammals. This text covers topics ranging from metabolism in hibernation to the role of endocrines, respiration and acid-base state in hibernation, and theories of hibernation.

### **Hibernation and Torpor in Mammals and Birds | ScienceDirect**

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### **Hibernation and Torpor in Mammals and Birds - 1st Edition**

Geiser F. Evolution of daily torpor and hibernation in birds and mammals: importance of body size. *Clinical and Experimental Pharmacology and Physiology*. 1998; 25 :736–739.

### **Daily torpor and hibernation in birds and mammals**

Daily torpor and hibernation are distinct physiological adaptations, and species employing these two types of metabolic reduction differ particularly in their maximum (and mean) torpor bout duration, as well as their capacity for absolute and relative reduction of metabolic rate.

### **Daily torpor and hibernation in birds and mammals - Ruf ...**

Many small mammals turn to hibernation to survive the winter, cycling through bouts of prolonged torpor where metabolic rate and body temperature fall to low levels.

### **Torpor and Hibernation in Mammals: Metabolic ...**

In the present comparison we evaluated (1) whether physiological variables of torpor from 104 avian and mammalian species warrant the distinction between hibernation and daily torpor as two different states of torpor and (2), if so, whether this distinction is best based on maximum torpor bout duration, minimum body temperature ( $T_b$ ), minimum metabolic rate during torpor, or the reduction of metabolic rate expressed as percentage of basal metabolism (BMR).

### **Hibernation versus Daily Torpor in Mammals and Birds ...**

Patterns of daily torpor and hibernation in free-ranging mammals over several months in the cold season (autumn months, 1-2; winter months, 3-5; and spring months, 6-7). The species are sugar gliders ( *Petaurus breviceps* ) for daily torpor and mountain pygmy-possums ( *Burrhamys parvus* ) for hibernation.

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