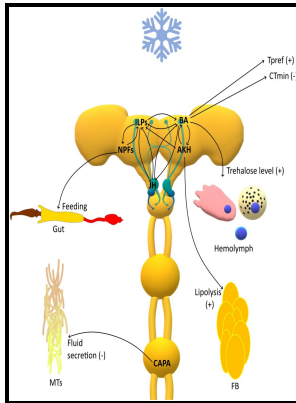


# Measurement of ion transport and metabolic rate in insects

Springer-Verlag - Q



Description: -

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Biological transport.

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National Bureau of Standards, Washington, D. Nespolo, Energy metabolism, heart rate and physiological differentiation in the pulmonate gastropod *Cornu aspersum*, Journal of Molluscan Studies, Volume 79, Issue 3, August 2013, Pages 257—262, Abstract We explored differences in metabolic rates of the introduced snail *Cornu aspersum* collected from three distant coastal locations across a 1300 km latitudinal range in Chile and raised under common-garden conditions. The potassium activity in a polymorphic potassium active transporting epithelium, insect midgut.

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Ion-selective electrode studies on the effects of 5-hydroxytryptamine on the intracellular level of potassium in an insect salivary gland. Passive electrical properties of toad urinary bladder epithelium. During this period, whole clutches were collected from the cages and placed in individual small plastic cages  $15 \times 8 \times 3$  cm until hatching and growth.

**Energy metabolism, heart rate and physiological differentiation in the pulmonate gastropod *Cornu aspersum***

Intracellular  $K^+$  activities and cell membrane potentials in a  $K^+$ -transporting epithelium, the midgut of tobacco hornworm *Manduca sexta*.

**Measurement of Ion Transport and Metabolic Rate in Insects**

Also, the smaller animals have a greater surface area to volume ratio, so more heat is lost. Statistics Results are presented as mean and standard error. ACKNOWLEDGEMENTS This study was funded by FONDECYT grant number 1090423 to RN.

**Measurement of Ion Transport and Metabolic Rate in Insects**

If both variables represent the same function i.

### **Metabolic rate and how it is measured**

The Q-Box RP1LP Low Range Respiration Package, can easily be adapted to work as Plant CO<sub>2</sub> Analysis Package for measurements of photosynthesis, and respiration in leaves by purchasing a G112 Flow Through Leaf Chamber, Q-A101 Lab Stand, and the A113 LED Light Source. In The Application of Ion-selective Microelectrodes.

### **Metabolic rate and how it is measured**

Finally, we demonstrated that the toxicity of SO<sub>4</sub> was influenced by temperature profoundly in a 96-h bioassay. O<sub>2</sub> uptake was determined for periods of 23-46 h in salt-depleted crayfish held in deionized water DW or Na-free media at 10 degrees C.

### **Methods for the Study of Transport and Control in Insect Hindgut**

Rectal absorption in the desert locust *Schistocerca gregaria* Forskål.

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