

The background of the cover is a high-magnification electron micrograph showing the internal structure of insect midgut cells. A large, circular nucleus with a prominent nucleolus is visible on the left. To the right, there are numerous mitochondria with distinct internal folds (cristae). The cytoplasm is filled with various organelles and granules.

Biology of the Insect Midgut

Edited by M. J. Lehane
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CHAPMAN & HALL

Resumo de Biology of the Insect Midgut

Entomological research benefits from a great diversity of technical approaches - from the molecular to the descriptive - and these are applied to an even greater diversity of insect species.

As a consequence, common themes and trends in entomological research can often be overlooked as each researcher focuses on his or her own area of interest. The purpose of this volume is to bring together diverse areas of research under one common theme.

The book is divisible into four conceptual areas: the structural biology of the midgut; digestion and transport; the insect midgut as a target for control strategies; and the midgut as an environment for other organisms.

Each chapter is written by scientists active in the reviewed research area and a truly international team of contributors has been chosen by the editors. Biology of the Insect Midgut will be of immense use to advanced undergraduate and postgraduate students, and researchers in entomology, physiology and pest control.

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