

The background of the cover is a detailed electron micrograph of an insect midgut cell. It shows a large, roughly circular cell with a complex internal structure. The cytoplasm is filled with various organelles, including numerous small, dark, spherical granules (likely glycogen or lipid droplets) and a network of membranes. On the right side, there is a prominent, highly folded membrane structure, possibly a brush border or a specialized microvillous border. The overall appearance is that of a highly specialized epithelial cell.

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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