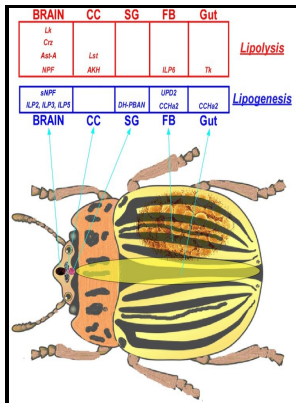


# Second messengers in the action of adipokinetic hormones on locust fat body

University of Birmingham - Calcium and cAMP are second messengers in the adipokinetic hormone



Description: -

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## 1. Physiology and Biochemistry of Insect Hormones

The flight muscles must thus take up fuels from the haemolymph. Therefore, this peptide is a good candidate for future endocrinological investigations in other animal phyla.

### The Endocrine Control of Flight Metabolism in Locusts

Protein sequence alignments were carried out using ClustalW2.

### Insect Neurochemistry and Neurophysiology · 1986

The timing of eukaryotic evolution: does a relaxed molecular clock reconcile proteins and fossils? The observed reduction of lipid synthesis is due to an inhibitory effect of AKH on the enzymes involved in the synthesis of fatty acid and fat.

### Adipokinetic hormones and their G protein

These reveal interesting properties including a relatively irreversible effect on hindgut contractions and activity at very low concentrations.

### The Endocrine Control of Flight Metabolism in Locusts

To investigate the impact of NIAKH injection on the Vg incorporation by oocytes, we further analyzed the expression levels of VgR in NIAKH-treated females. As shown in Figure, DEPC-treated water-injected and dsGFP-injected controls were capable of producing 394. The results are represented as means  $\pm$  SE from three independent experiments.

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