

Insect morphology

It's the **study and description of the physical form of insects.**

There is enormous variation in body structure amongst insect species. Individuals can range from 0.3 mm (fairiesflies) to 30 cm across (great owl moth), have no eyes or many; well-developed wings or none; and legs modified for running, jumping, swimming, or even digging. These modifications allow insects to occupy almost every ecological niche on the planet, except the deep ocean.

Insect body is divided into **three regions**

Head

Thorax

Abdomen

1. Head

The head of an insect is composed of a series of segments, which are specialized for **food gathering, sensory perception, and neural integration.**

The head bears the **eyes (compound eyes and ocelli), antennae, and mouthparts.** The anterior part of the head is the **frons.** The anterior area below the dorsum of the head, between and behind the eyes is **the vertex.** The area below the compound eye, on the side of the head, is the **gena.** The liplike sclerite is the **clypeus.**

The antennae vary greatly among insects, but all follow a basic plan: segments 1 and 2 are termed the **scape and pedicel,** respectively. The remaining antennal segments (flagellomeres) are jointly called the flagellum. Antennae function almost exclusively in sensory perception. Some of the information that can be detected by insect antennae includes: motion and orientation, odor, sound, humidity,

2. Thorax

The insect thorax is divided into three parts:

- A. Prothorax (pro=first),
- B. Mesothorax (meso=middle)

Lecture 2 Insect Morphology Introduction To Applied

Ying-Ying Zheng



Lecture 2 Insect Morphology Introduction To Applied:

Whispering the Strategies of Language: An Psychological Quest through **Lecture 2 Insect Morphology Introduction To Applied**

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