NERVOUS SYSTEM

- Ladder like nervous system
- dorsal brain in the head

- a paired, ventral, longitudinal nerve cord paired segmental ganglia

 Fancy way to say: they have clumps of nerves where they have movements (at base of wings)

Side view of body showing relative position of circulatory (yellow), digestive (green), and nervous (blue) systems.

SENSE ORGANS

1. General

- receptors for light, vibrations, chemicals, equilibrium, gravity
- cuticle modified to form a vast array of receptors (sensilla)

2. Mechanoreceptors

extremely sensitive mechanoreceptors detect weak, low velocity air currents

3. Chemoreceptors

- detect chemicals
- modified hollow setae with substrate-specific chemosensory neurons

4. Hygroreceptors

humidity receptors

5. Photoreceptors

widespread, often well-developed and sophisticated

	SENSE ORGANS
3.	Compound Eyes
a.	General
•	multiple light receiving units
	Called ommatidia
•	each ommatidium usually has its own lens (or cornea)
•	most have one pair Compound Eye
	Facet Crystalline cone Pigment cells Visual cells Nerve fibers from visual cel