Table 20.1. THE GIANT FIBER SYSTEM. Its afferent and efferent connections in the dragonfly nymph, cockroach, and locust (adapted from Fielden, 1960).

	Anax nymph	*Periplaneta*	*Locusta*
Giant fiber			
(a) Diameter	12–16 μ	20–45 μ	8–15 μ
(b) Number	6–7	6–8	4
(c) Velocity	3.5–4.5 m/sec	6–7 m/sec	3–4 m/sec
Sensory input	Sensory axons from paraprocts	Each synapse with several sensory axons from cerci	Sensory axons from cerci
Sensory-giant fiber synapse			
(a) Delay	2.0–4.5 msec	1.4–1.9 msec	2–3 msec
(b) Transmission frequency	50–60 per second	70–100 per second	70–80 per second
(c) Facilitation	No	No	?
(d) Temporal summation	No	When fatigued	?
Giant fiber-motor synapse	Only above 20–30 per second		
(a) Delay	Long, variable	30–50 msec; shortens following rest	?
(b) Transmission properties	Labile; summation important	Labile; summation important	?
(c) Influenced from head	?	Brain stimulation can inhibit	?