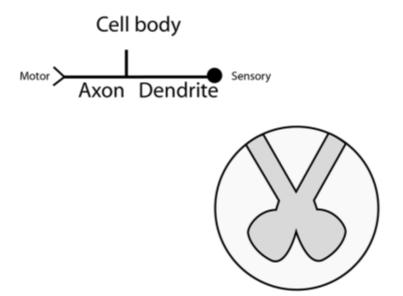
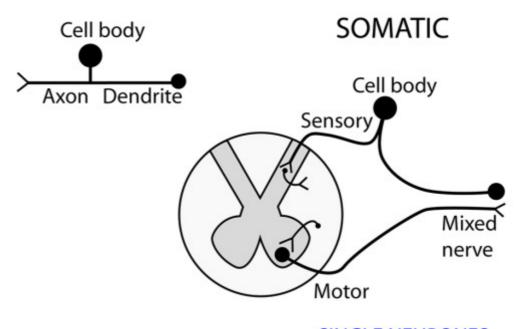
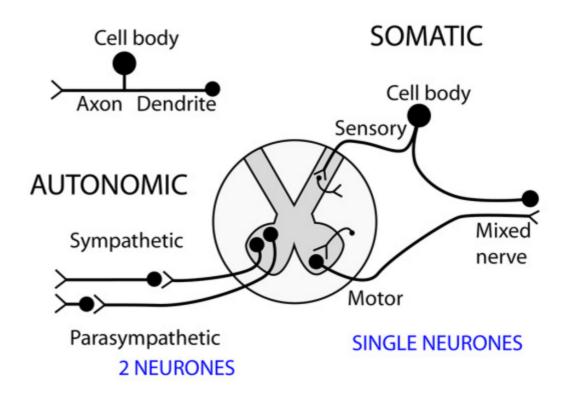
COMPARISON OF SOMATIC & AUTONOMIC NEURONES

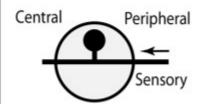




SINGLE NEURONES



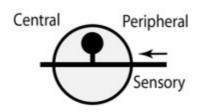
3 TYPES OF GANGLIA



SENSORY GANGLION has cell bodies only and NO synapses Examples:

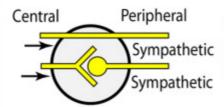
- Posterior (dorsal) root
- Glossopharyngeal Trigeminal
- Geniculate Vagal

3 TYPES OF GANGLIA



SENSORY GANGLION has cell bodies only and NO synapses Examples:

- Posterior (dorsal) root
- Trigeminal
 Glossopharyngeal
- Geniculate
 Vagal

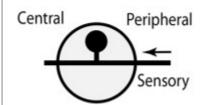


SYMPATHETIC GANGLION has either a synapse or a fibre passing through it to synapse later.

Examples:

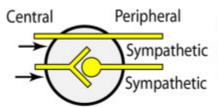
- Sympathetic chain
- Sympathetic peripheral ganglia (coeliac, renal, superior mesenteric)

3 TYPES OF GANGLIA



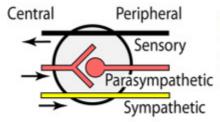
SENSORY GANGLION has cell bodies only and NO synapses Examples:

- Posterior (dorsal) root
- Glossopharyngeal Trigeminal
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SYMPATHETIC GANGLION has either a synapse or a fibre passing through it to synapse later.

- Examples: Sympathetic chain
 - Sympathetic peripheral ganglia (coeliac, renal, superior mesenteric)

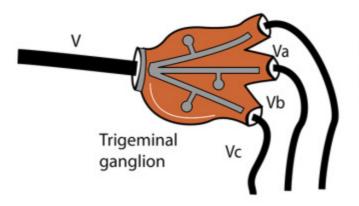


PARASYMPATHETIC GANGLION has

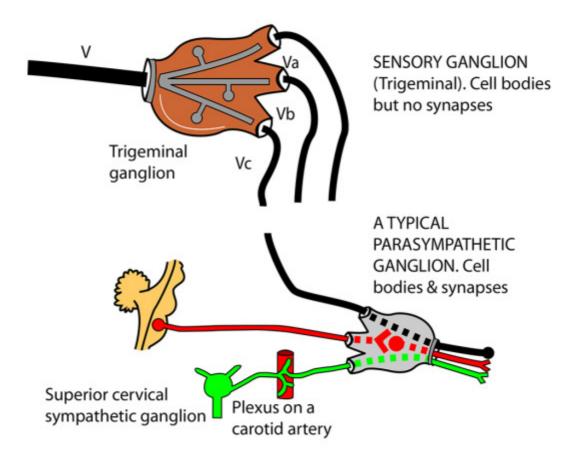
parasympathetic nerves synapsing and both a somatic sensory and a sympathetic nerve passing

through it. Examples:

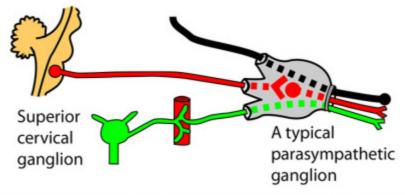
- Ciliary
- Ptergopalatine
- Submandibular
- Otic



SENSORY GANGLION (Trigeminal). Cell bodies but no synapses



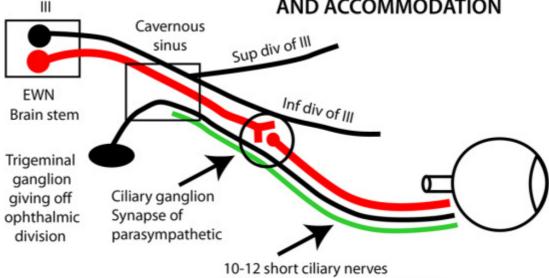
SYMPATHETICS IN PARASYMPATHETIC GANGLIA



There are always sympathetic fibres passing through each of the parasympathetic ganglia. They arise from plexuses on branches of the external or internal carotid arteries.

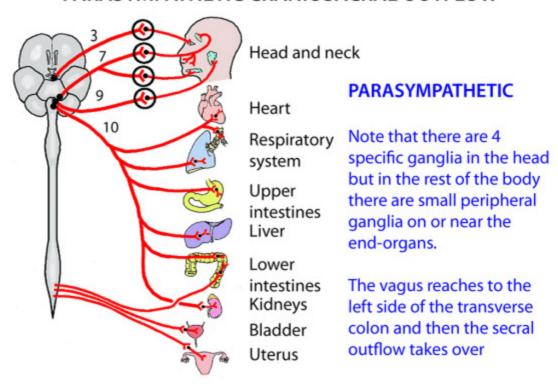
They do not synapse in these parasympathetic ganglia as they have already synapsed in the superior cervical ganglion. They supply vasoconstriction to the end organs and NEVER have special functions such as pupillary dilatation

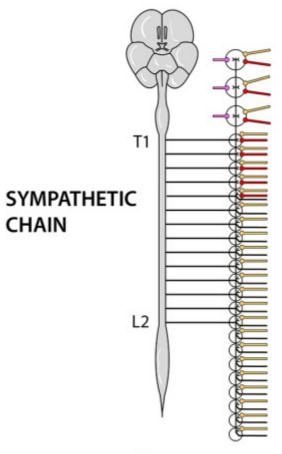
PARASYMPATHETIC PATHWAY FOR PUPILLARY CONSTRICTION AND ACCOMMODATION

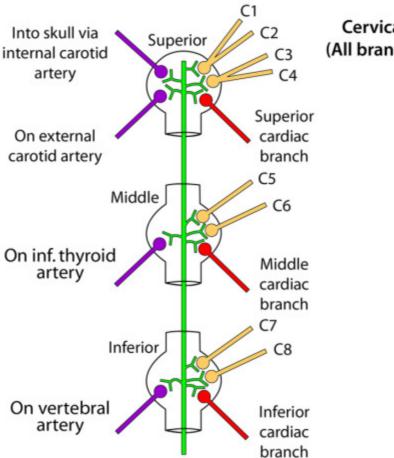


- Postganglionic parasympathetic
- Branch of nasociliary (sensory)
- Sympathetic off artery (V/C)

PARASYMPATHETIC CRANIOSACRAL OUTFLOW







Cervical sympathetic ganglia (All branches are postganglionic)



Somatic branches (Vasomotor Sudomotor Pilomotor)



Visceral branches



Vascular branches