

# Parasympathetic ganglion

**Parasympathetic ganglia** are the autonomic ganglia of the parasympathetic nervous system. Most are small **terminal ganglia** or **intramural ganglia**, so named because they lie near or within (respectively) the organs they innervate. The exceptions are the four paired **parasympathetic ganglia of the head and neck**.

## Contents

Of the head and neck

Roots

Nerves supplying parasympathetic fibers

External links

## Of the head and neck

These paired ganglia supply all parasympathetic innervation to the head and neck.

- iliary ganglion (sphincter pupillae, ciliary muscle)
- pterygopalatine ganglion (lacrimal gland, glands of nasal cavity)
- submandibular ganglion (submandibular and sublingual glands)
- otic ganglion (parotid gland)

## Roots

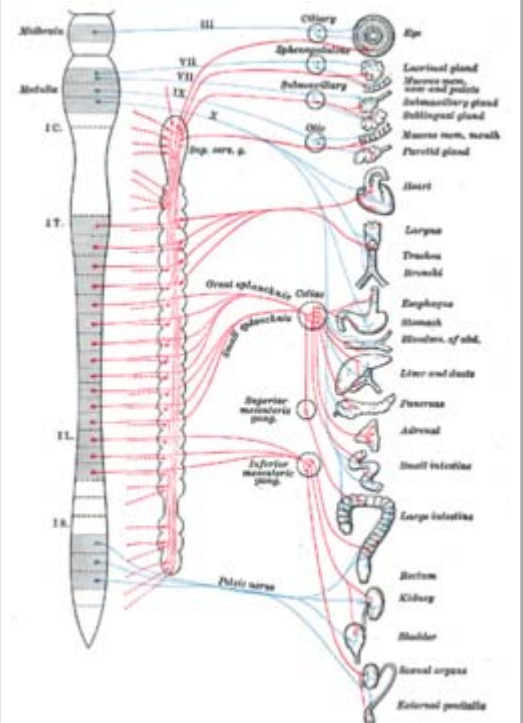
Each has three roots entering the ganglion and a variable number of exiting branches.

- The **motor root** carries presynaptic parasympathetic nerve fibers (GVE) that terminate in the ganglion and synapse with the postsynaptic fibers that, in turn, project to target organs.
- The **sympathetic root** carries postsynaptic sympathetic fibers (GVE) that traverse the ganglion without synapsing.
- The **sensory root** carries general sensory fibers (GSA) that also do not synapse in the ganglion.

Some ganglia also carry special sensory fibers (SVA) for taste sensation.

## Nerves supplying parasympathetic fibers

### Parasympathetic ganglion



Autonomic nervous system innervation, showing the sympathetic and parasympathetic (craniosacral) systems, in red and blue, respectively

#### Details

#### Identifiers

**Latin** *ganglion parasympathicum*

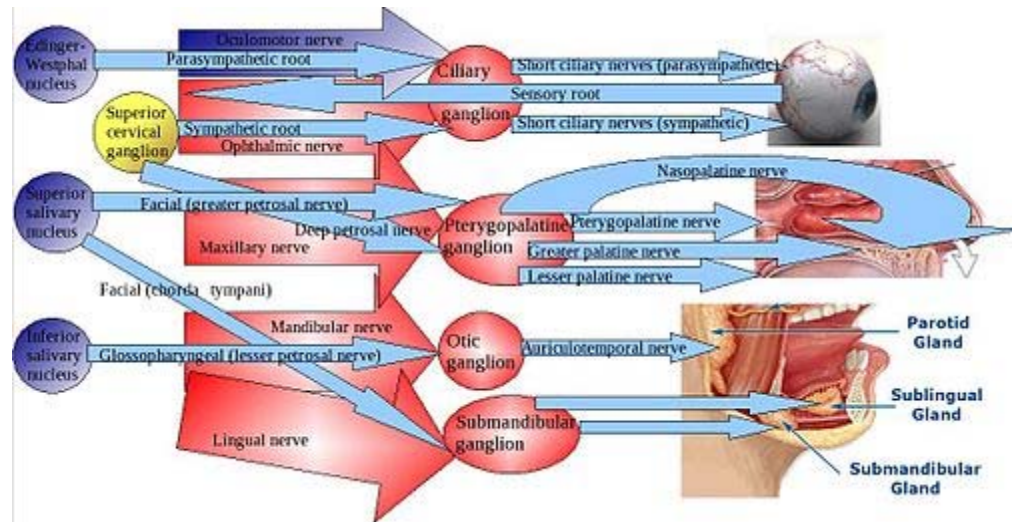
**MeSH** D005726 (<https://meshb.nlm.nih.gov/record/ui?ui=D005726>)

**TA** A14.2.00.012 (<http://www.unifr.ch/ifaa/Public/EntryPage/TA98%20Tree/Entity%20TA98%20EN/14.2.00.012%20Entity%20TA98%20EN.htm>)

**FMA** 5894 (<https://bioportal.bioontology.org/ontologies/FMA/?p=classes&conceptid=http%3A%2F%2Fpurl.org%2Fsig%2Font%2Ffma%2Ffma5894>)

- oculomotor nerve (ciliary ganglion)
- facial nerve (pterygopalatine ganglion, submandibular ganglion)
- glossopharyngeal nerve (otic ganglion)
- vagus nerve (no named ganglion)
- pelvic splanchnic nerves

### Anatomical terminology



Parasympathetic ganglia of the head

## External links

- Histology image: 04601loa (<http://www.bu.edu/histology/p/04601loa.htm>) – Histology Learning System at Boston University
- Autonomics of the Head and Neck - Page 4 of 14 ([https://www.med.umich.edu/lrc/coursepages/m1/anatomy2010/html/modules/head\\_autonomics\\_module/autonomics\\_04.html](https://www.med.umich.edu/lrc/coursepages/m1/anatomy2010/html/modules/head_autonomics_module/autonomics_04.html)) anatomy module at [med.umich.edu](http://www.med.umich.edu)
- The Autonomic Nervous System (<https://web.archive.org/web/20080611073338/http://microvet.arizona.edu/Courses/VSC401/autonomicNervous.html>) from the University of Arizona
- Diagrams (<http://137.222.110.150/calnet/AutoH&N/page5.htm>)
- "Terminal ganglion - Auerbach's plexus - plastic section" (<https://web.archive.org/web/20010426015642/http://casweb.cas.ou.edu/pbell/Histology/Captions/Nerve/pl.colon.auerbachs.20.html>)

Retrieved from "[https://en.wikipedia.org/w/index.php?title=Parasympathetic\\_ganglion&oldid=870894015](https://en.wikipedia.org/w/index.php?title=Parasympathetic_ganglion&oldid=870894015)"

**This page was last edited on 27 November 2018, at 17:19 (UTC).**

Text is available under the Creative Commons Attribution-ShareAlike License; additional terms may apply. By using this site, you agree to the Terms of Use and Privacy Policy. Wikipedia® is a registered trademark of the Wikimedia Foundation, Inc., a non-profit organization.