**Formal description (which replaces EQ but which still needs to be translated into an OWL file)**

**taxon: *Araneus diadematus* Clerck, 1757 (Araneae, Chelicerata)**

The following formal description is not exhaustive and relates to one specimen (Ad69). For further details and a classical description see Runge & Wirkner (in prep.).

Hemolymph vascular system (xref: OARCS:0000177) of the opisthosoma (SPD:0000003)

tubular heart (count: 1) (xref: OARCS:0000008):

- shape: fusiform (PATO:0002400) AND

sigmoid (PATO:0001878) AND tubular (PATO:0002299)

- position: anterior-posterior axis (BSPO\_0000013) AND dorso-medial region (BSPO\_0000069) AND posterior region (BSPO\_0000072)

- spatial relation: located\_in (RO\_0001025) opisthosoma (SPD\_0000003) AND

anterior margin (BSPO\_0000671): posterior margin (BSPO\_0000672)

pedicel (SPD\_0000006) AND

posterior margin (BSPO\_0000672): 2nd dorsoventral muscle (????)

AND parallel\_to (BSPO.obo#parallel\_to) dorso-medial region (BSPO\_0000069): opisthosoma (SPD:0000003) AND

dorsal\_to (BSPO\_0000089) posterior midgut (SPD:0000131)

- constituents: first ostium (xref: OARCS:0000143) AND

second ostium (xref: OARCS:0000142) AND

third ostium (xref: OARCS:0000093) AND epicard (xref: OARCS:0000187) AND myocard (xref: OARCS:0000018)

- connections: gives\_rise\_to (Xref: OArCS:gives\_rise): anterior aorta system (xref: OARCS:0000102) AND posterior aorta system (xref: OARCS:0000080) AND first cardiac artery system (xref: OARCS:0000025) AND

second cardiac artery system (xref: OARCS:0000097) AND third cardiac artery system (xref: OARCS:0000098) AND

attached\_to (RO\_0002371): dorsal ligament (xref: OARCS:0000203) (count: 10) AND lateral ligament (xref: OARCS:0000196) (count: 9 pairs) AND ventral ligament (xref: OARCS:0000200) (count: 3 pairs)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 1 (** [**tubular heart**](http://purl.obolibrary.org/obo/OARCS_0000008) **and ((** [**attached to**](http://purl.obolibrary.org/obo/RO_0002371) **exactly 3 (** [**ventral ligament**](http://purl.obolibrary.org/obo/OARCS_0000200) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**ventral ligament**](http://purl.obolibrary.org/obo/OARCS_0000200) **))) and (** [**attached to**](http://purl.obolibrary.org/obo/RO_0002371) **exactly 9 (** [**lateral ligament**](http://purl.obolibrary.org/obo/OARCS_0000196) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**lateral ligament**](http://purl.obolibrary.org/obo/OARCS_0000196) **)))) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**dorso-medial region**](http://purl.obolibrary.org/obo/BSPO_0000069) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**posterior region**](http://purl.obolibrary.org/obo/BSPO_0000072) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**opisthosoma**](http://purl.obolibrary.org/obo/SPD_0000003) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**myocard**](http://purl.obolibrary.org/obo/OARCS_0000018) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**epicard**](http://purl.obolibrary.org/obo/OARCS_0000187) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**anterior margin**](http://purl.obolibrary.org/obo/BSPO_0000671) **and (** [**adjacent to**](http://purl.obolibrary.org/obo/RO_0002220) **some (** [**posterior margin**](http://purl.obolibrary.org/obo/BSPO_0000672) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**pedicel**](http://purl.obolibrary.org/obo/SPD_0000006) **))))) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**posterior margin**](http://purl.obolibrary.org/obo/BSPO_0000672) **and (** [**adjacent to**](http://purl.obolibrary.org/obo/RO_0002220) **some** [**second dorsoventral muscle**](http://www.semanticweb.org/imiko/ontologies/2015/7/untitled-ontology-50#second_dorsoventral_muscle) **))) and (** [**dorsal\_to**](http://purl.obolibrary.org/obo/BSPO_0000098) **some** [**posterior midgut**](http://purl.obolibrary.org/obo/SPD_0000131) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**sigmoid**](http://purl.obolibrary.org/obo/PATO_0001878) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**fusiform**](http://purl.obolibrary.org/obo/PATO_0002400) **) and (** [**\_gives\_rise**](http://purl.obolibrary.org/obo/OArCS#_gives_rise) **some** [**posterior aorta system**](http://purl.obolibrary.org/obo/OARCS_0000080) **) and (** [**\_gives\_rise**](http://purl.obolibrary.org/obo/OArCS#_gives_rise) **some** [**anterior aorta system**](http://purl.obolibrary.org/obo/OARCS_0000102) **) and (** [**parallel\_to**](http://purl.obolibrary.org/obo/bspo#parallel_to) **some** [**anterior-posterior axis**](http://purl.obolibrary.org/obo/BSPO_0000013) **) and (** [**parallel\_to**](http://purl.obolibrary.org/obo/bspo#parallel_to) **some (** [**dorso-medial region**](http://purl.obolibrary.org/obo/BSPO_0000069) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**opisthosoma**](http://purl.obolibrary.org/obo/SPD_0000003) **))) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**third ostium**](http://purl.obolibrary.org/obo/OARCS_0000093) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**third ostium**](http://purl.obolibrary.org/obo/OARCS_0000093) **))) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**second ostium**](http://purl.obolibrary.org/obo/OARCS_0000142) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**second ostium**](http://purl.obolibrary.org/obo/OARCS_0000142) **))) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**first ostium**](http://purl.obolibrary.org/obo/OARCS_0000143) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**first ostium**](http://purl.obolibrary.org/obo/OARCS_0000143) **))) and (** [**attached to**](http://purl.obolibrary.org/obo/RO_0002371) **exactly 10** [**dorsal ligament**](http://purl.obolibrary.org/obo/OARCS_0000203) **) and (** [**\_gives\_rise**](http://purl.obolibrary.org/obo/OArCS#_gives_rise) **exactly 1 (** [**first cardiac artery system**](http://purl.obolibrary.org/obo/OARCS_0000025) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**first cardiac artery system**](http://purl.obolibrary.org/obo/OARCS_0000025) **))) and (** [**\_gives\_rise**](http://purl.obolibrary.org/obo/OArCS#_gives_rise) **exactly 1 (** [**second cardiac artery system**](http://purl.obolibrary.org/obo/OARCS_0000097) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**second cardiac artery system**](http://purl.obolibrary.org/obo/OARCS_0000097) **))) and (** [**\_gives\_rise**](http://purl.obolibrary.org/obo/OArCS#_gives_rise) **exactly 1 (** [**third cardiac artery system**](http://purl.obolibrary.org/obo/OARCS_0000098) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**third cardiac artery system**](http://purl.obolibrary.org/obo/OARCS_0000098) **))))**

epicard (xref: OARCS:0000187)

- shape: equivalentTo tubular heart (xref: OARCS:0000008)

- position: equivalentTo tubular heart (xref: OARCS:0000008)

- spatial relation: located\_in (RO\_0001025) opisthosoma (SPD\_0000003) AND

peripheral region(BSPO\_0000127):

tubular heart (xref: OARCS:0000008)

- constituents: connective tissue (UBERON:0002384)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**epicard**](http://purl.obolibrary.org/obo/OARCS_0000187) **and ((** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**opisthosoma**](http://purl.obolibrary.org/obo/SPD_0000003) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some (** [**peripheral region**](http://purl.obolibrary.org/obo/BSPO_0000127) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**tubular heart**](http://purl.obolibrary.org/obo/OARCS_0000008) **))) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**connective tissue**](http://purl.obolibrary.org/obo/CL_0000388) **)) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**sigmoid**](http://purl.obolibrary.org/obo/PATO_0001878) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**fusiform**](http://purl.obolibrary.org/obo/PATO_0002400) **) and (** [**parallel\_to**](http://purl.obolibrary.org/obo/bspo#parallel_to) **some** [**anterior-posterior axis**](http://purl.obolibrary.org/obo/BSPO_0000013) **))**

myocard (xref: OARCS:0000018)

- shape: equivalentTo tubular heart (xref: OARCS:0000008)

- position: equivalentTo tubular heart (xref: OARCS:0000008)

- spatial relation: located\_in (RO\_0001025) opisthosoma (SPD\_0000003) AND

equivalentTo tubular heart (xref: OARCS:0000008)

- constituents: cardiomyocyte (xref: OARCS:0000013)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**myocard**](http://purl.obolibrary.org/obo/OARCS_0000018) **and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**cardiomyocyte**](http://purl.obolibrary.org/obo/OARCS_0000013) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**anterior margin**](http://purl.obolibrary.org/obo/BSPO_0000671) **and (** [**adjacent to**](http://purl.obolibrary.org/obo/RO_0002220) **some (** [**posterior margin**](http://purl.obolibrary.org/obo/BSPO_0000672) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**pedicel**](http://purl.obolibrary.org/obo/SPD_0000006) **))))) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**posterior margin**](http://purl.obolibrary.org/obo/BSPO_0000672) **and (** [**adjacent to**](http://purl.obolibrary.org/obo/RO_0002220) **some** [**second dorsoventral muscle**](http://www.semanticweb.org/imiko/ontologies/2015/7/untitled-ontology-50#second_dorsoventral_muscle) **))) and (** [**dorsal\_to**](http://purl.obolibrary.org/obo/BSPO_0000098) **some** [**posterior midgut**](http://purl.obolibrary.org/obo/SPD_0000131) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**sigmoid**](http://purl.obolibrary.org/obo/PATO_0001878) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**fusiform**](http://purl.obolibrary.org/obo/PATO_0002400) **) and (** [**parallel\_to**](http://purl.obolibrary.org/obo/bspo#parallel_to) **some** [**anterior-posterior axis**](http://purl.obolibrary.org/obo/BSPO_0000013) **) and (** [**parallel\_to**](http://purl.obolibrary.org/obo/bspo#parallel_to) **some (** [**dorso-medial region**](http://purl.obolibrary.org/obo/BSPO_0000069) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**opisthosoma**](http://purl.obolibrary.org/obo/SPD_0000003) **))))**

first ostium (count: 1 pair) (xref: OARCS:0000143)

- shape: slit\_like (PATO:0002482)

- position: posterior region (BSPO\_0000072)

- spatial relation: located\_in (RO\_0001025) opisthosoma (SPD\_0000003)

- constituents: ostial valve (count: 2) (xref: OARCS:0000185)

- connections: epicard (xref: OARCS:0000187) AND myocard (xref: OARCS:0000018)

[**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**first ostium**](http://purl.obolibrary.org/obo/OARCS_0000143) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**posterior region**](http://purl.obolibrary.org/obo/BSPO_0000072) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**ostial valve**](http://purl.obolibrary.org/obo/OARCS_0000185) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**slit-like**](http://purl.obolibrary.org/obo/PATO_0002482) **) and (** [**adjacent to**](http://purl.obolibrary.org/obo/RO_0002220) **some** [**myocard**](http://purl.obolibrary.org/obo/OARCS_0000018) **) and (** [**adjacent to**](http://purl.obolibrary.org/obo/RO_0002220) **some** [**epicard**](http://purl.obolibrary.org/obo/OARCS_0000187) **) and (** [**composed primarily of**](http://purl.obolibrary.org/obo/RO_0002473) **some** [**cardiomyocyte**](http://purl.obolibrary.org/obo/OARCS_0000013) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**first ostium**](http://purl.obolibrary.org/obo/OARCS_0000143) **))**

second ostium (count: 1 pair) (xref: OARCS:0000142)

- shape: slit\_like (PATO:0002482)

- position: posterior region (BSPO\_0000072)

- spatial relation: located\_in (RO\_0001025) opisthosoma (SPD\_0000003)

- constituents: ostial valve (count: 2) (xref: OARCS:0000185)

- connections: epicard (xref: OARCS:0000187) AND myocard (xref: OARCS:0000018)

[**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**second ostium**](http://purl.obolibrary.org/obo/OARCS_0000142) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**posterior region**](http://purl.obolibrary.org/obo/BSPO_0000072) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**ostial valve**](http://purl.obolibrary.org/obo/OARCS_0000185) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**slit-like**](http://purl.obolibrary.org/obo/PATO_0002482) **) and (** [**adjacent to**](http://purl.obolibrary.org/obo/RO_0002220) **some** [**myocard**](http://purl.obolibrary.org/obo/OARCS_0000018) **) and (** [**adjacent to**](http://purl.obolibrary.org/obo/RO_0002220) **some** [**epicard**](http://purl.obolibrary.org/obo/OARCS_0000187) **) and (** [**composed primarily of**](http://purl.obolibrary.org/obo/RO_0002473) **some** [**cardiomyocyte**](http://purl.obolibrary.org/obo/OARCS_0000013) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**second ostium**](http://purl.obolibrary.org/obo/OARCS_0000142) **))**

third ostium (count: 1 pair) (xref: OARCS:0000093)

- shape: slit\_like (PATO:0002482)

- position: posterior region (BSPO\_0000072)

- spatial relation: located\_in (RO\_0001025) opisthosoma (SPD\_0000003)

- constituents: ostial valve (count: 2) (xref: OARCS:0000185)

- connections: epicard (xref: OARCS:0000187) AND myocard (xref: OARCS:0000018)

[**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**third ostium**](http://purl.obolibrary.org/obo/OARCS_0000093) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**posterior region**](http://purl.obolibrary.org/obo/BSPO_0000072) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**ostial valve**](http://purl.obolibrary.org/obo/OARCS_0000185) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**slit-like**](http://purl.obolibrary.org/obo/PATO_0002482) **) and (** [**adjacent to**](http://purl.obolibrary.org/obo/RO_0002220) **some** [**myocard**](http://purl.obolibrary.org/obo/OARCS_0000018) **) and (** [**adjacent to**](http://purl.obolibrary.org/obo/RO_0002220) **some** [**epicard**](http://purl.obolibrary.org/obo/OARCS_0000187) **) and (** [**composed primarily of**](http://purl.obolibrary.org/obo/RO_0002473) **some** [**cardiomyocyte**](http://purl.obolibrary.org/obo/OARCS_0000013) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**third ostium**](http://purl.obolibrary.org/obo/OARCS_0000093) **))**

posterior aorta system (count: 1) (xref: OARCS:0000080)

- shape: tubular (PATO:0002299) AND

arched (PATO:0001594) AND distal region (BSPO\_0000078):

bifurcated (PATO:0001784)

- position: anterior-posterior axis (BSPO\_0000013) AND postero-medial region (BSPO\_0000064) AND dorsal side (BSPO\_0000063)

- spatial relation: located\_in (RO\_0001025) opisthosoma (SPD\_0000003) AND

proximal side (BSPO\_0000061): posterior side (BSPO\_0000056):

tubular heart (xref: OARCS:0000008) AND

distal side (BSPO\_0000062): adjacent\_to (RO\_0002220)

spinneret (SPD:0000010)

- constituents: posterior aorta (xref: OARCS:0000156)

- connections: emanates\_from (RO:0002377): tubular heart (xref: OARCS:0000008)

[**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 1 (** [**posterior aorta system**](http://purl.obolibrary.org/obo/OARCS_0000080) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**dorsal side**](http://purl.obolibrary.org/obo/BSPO_0000063) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**posterior region**](http://purl.obolibrary.org/obo/BSPO_0000072) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**medial region**](http://purl.obolibrary.org/obo/BSPO_0000083) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**posterior aorta**](http://purl.obolibrary.org/obo/OARCS_0000156) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal side**](http://purl.obolibrary.org/obo/BSPO_0000061) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some (** [**posterior side**](http://purl.obolibrary.org/obo/BSPO_0000056) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**tubular heart**](http://purl.obolibrary.org/obo/OARCS_0000008) **))))) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**distal side**](http://purl.obolibrary.org/obo/BSPO_0000062) **and (** [**adjacent to**](http://purl.obolibrary.org/obo/RO_0002220) **some** [**spinneret**](http://purl.obolibrary.org/obo/SPD_0000010) **))) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**distal region**](http://purl.obolibrary.org/obo/BSPO_0000078) **and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**bifurcated**](http://purl.obolibrary.org/obo/PATO_0001784) **))) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**arched**](http://purl.obolibrary.org/obo/PATO_0001594) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**tubular heart**](http://purl.obolibrary.org/obo/OARCS_0000008) **) and (** [**parallel\_to**](http://purl.obolibrary.org/obo/bspo#parallel_to) **some** [**anterior-posterior axis**](http://purl.obolibrary.org/obo/BSPO_0000013) **))**

posterior aorta (count: 1) (xref: OARCS:0000156)

- shape: tubular (PATO:0002299) AND

arched (PATO:0001594) AND unbranched (PATO:0000414)

- position: anterior-posterior axis (BSPO\_0000013) AND postero-medial region (BSPO\_0000064) AND dorsal side (BSPO\_0000063)

- spatial relation: located\_in (RO\_0001025) opisthosoma (SPD\_0000003) AND

proximal side (BSPO\_0000061): posterior side (BSPO\_0000056):

tubular heart (xref: OARCS:0000008) AND

distal side (BSPO\_0000062): adjacent\_to (RO\_0002220)

spinneret (SPD:0000010)

- constituents: -

- connections: emanates\_from (RO:0002377): tubular heart (xref: OARCS:0000008)

[**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 1 (** [**posterior aorta**](http://purl.obolibrary.org/obo/OARCS_0000156) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**dorsal side**](http://purl.obolibrary.org/obo/BSPO_0000063) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**postero-medial region**](http://purl.obolibrary.org/obo/BSPO_0000064) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**opisthosoma**](http://purl.obolibrary.org/obo/SPD_0000003) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal side**](http://purl.obolibrary.org/obo/BSPO_0000061) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some (** [**posterior side**](http://purl.obolibrary.org/obo/BSPO_0000056) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**tubular heart**](http://purl.obolibrary.org/obo/OARCS_0000008) **))))) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**distal side**](http://purl.obolibrary.org/obo/BSPO_0000062) **and (** [**adjacent to**](http://purl.obolibrary.org/obo/RO_0002220) **some** [**spinneret**](http://purl.obolibrary.org/obo/SPD_0000010) **))) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**arched**](http://purl.obolibrary.org/obo/PATO_0001594) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**tubular heart**](http://purl.obolibrary.org/obo/OARCS_0000008) **) and (** [**parallel\_to**](http://purl.obolibrary.org/obo/bspo#parallel_to) **some** [**anterior-posterior axis**](http://purl.obolibrary.org/obo/BSPO_0000013) **))**

first cardiac artery system (count: 1 pair) (xref: OARCS:0000025):

- shape: tubular (PATO:0002299) AND branched (PATO:0000402)

- position: posterior region (BSPO\_0000072)

- spatial relation: located\_in (RO\_0001025) opisthosoma (SPD\_0000003) AND

lateral side (BSPO\_0000066): tubular heart (xref: OARCS:0000008)

AND ventral\_to (BSPO\_0000102) second ostium (xref: OARCS:0000142)

AND supplies (RO:0002178): antero-lateral region (BSPO\_0000029): opisthosoma

(SPD\_0000003) AND

anterior-most region (BSPO\_0000036): midgut

(SPD\_0000628) AND

SOME silk gland (SPD\_0000631)

- constituents: first cardiac artery (xref: OARCS:0000145)

- connections: emanates\_from (RO:0002377): tubular heart (xref: OARCS:0000008)

[**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**first cardiac artery system**](http://purl.obolibrary.org/obo/OARCS_0000025) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**posterior region**](http://purl.obolibrary.org/obo/BSPO_0000072) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**opisthosoma**](http://purl.obolibrary.org/obo/SPD_0000003) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**first cardiac artery**](http://purl.obolibrary.org/obo/OARCS_0000145) **) and (** [**ventral\_to**](http://purl.obolibrary.org/obo/BSPO_0000102) **some** [**second ostium**](http://purl.obolibrary.org/obo/OARCS_0000142) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**silk gland**](http://purl.obolibrary.org/obo/SPD_0000631) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some (** [**antero-lateral region**](http://purl.obolibrary.org/obo/BSPO_0000029) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**opisthosoma**](http://purl.obolibrary.org/obo/SPD_0000003) **))) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some (** [**anterior-most region**](http://purl.obolibrary.org/obo/BSPO_0000036) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**midgut**](http://purl.obolibrary.org/obo/SPD_0000628) **))) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some (** [**lateral side**](http://purl.obolibrary.org/obo/BSPO_0000066) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**tubular heart**](http://purl.obolibrary.org/obo/OARCS_0000008) **))) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**tubular heart**](http://purl.obolibrary.org/obo/OARCS_0000008) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**first cardiac artery system**](http://purl.obolibrary.org/obo/OARCS_0000025) **))**

second cardiac artery system (count: 1 pair) (xref: OARCS:0000097):

- shape: tubular (PATO:0002299) AND branched (PATO:0000402)

- position: posterior region (BSPO\_0000072)

- spatial relation: located\_in (RO\_0001025) opisthosoma (SPD\_0000003) AND

lateral side (BSPO\_0000066): tubular heart (xref: OARCS:0000008)

AND ventral\_to (BSPO\_0000102) third ostium (xref: OARCS:0000142)

supplies (RO:0002178): medial region (BSPO\_0000083) of opisthosoma (SPD\_0000003) AND midgut (SPD\_0000628) AND SOME silk gland (SPD\_0000631)

- constituents: second cardiac artery (xref: OARCS:0000144)

- connections: emanates\_from (RO:0002377): tubular heart (xref: OARCS:0000008)

[**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**second cardiac artery system**](http://purl.obolibrary.org/obo/OARCS_0000097) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**posterior region**](http://purl.obolibrary.org/obo/BSPO_0000072) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**opisthosoma**](http://purl.obolibrary.org/obo/SPD_0000003) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**second cardiac artery**](http://purl.obolibrary.org/obo/OARCS_0000144) **) and (** [**ventral\_to**](http://purl.obolibrary.org/obo/BSPO_0000102) **some** [**third ostium**](http://purl.obolibrary.org/obo/OARCS_0000093) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**midgut**](http://purl.obolibrary.org/obo/SPD_0000628) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**silk gland**](http://purl.obolibrary.org/obo/SPD_0000631) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some (** [**medial region**](http://purl.obolibrary.org/obo/BSPO_0000083) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**opisthosoma**](http://purl.obolibrary.org/obo/SPD_0000003) **))) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some (** [**lateral side**](http://purl.obolibrary.org/obo/BSPO_0000066) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**tubular heart**](http://purl.obolibrary.org/obo/OARCS_0000008) **))) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**tubular heart**](http://purl.obolibrary.org/obo/OARCS_0000008) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**second cardiac artery system**](http://purl.obolibrary.org/obo/OARCS_0000097) **))**

third cardiac artery system (count: 1 pair) (xref: OARCS:0000098):

- shape: tubular (PATO:0002299) AND branched (PATO:0000402)

- position: posterior region (BSPO\_0000072)

- spatial relation: located\_in (RO\_0001025)

opisthosoma (SPD\_0000003) AND

lateral side (BSPO\_0000066): tubular heart (xref: OARCS:0000008)

AND lateral\_to (PATO\_0001193) posterior aorta (xref: OARCS:0000156) supplies (RO:0002178): posterior region (BSPO\_0000072): opisthosoma (SPD\_0000003) AND midgut (SPD\_0000628) AND silk gland (SPD\_0000631)

- constituents: third cardiac artery (xref: OARCS:0000139)

- connections: emanates\_from (RO:0002377): tubular heart (xref: OARCS:0000008)

[**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**third cardiac artery system**](http://purl.obolibrary.org/obo/OARCS_0000098) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**posterior region**](http://purl.obolibrary.org/obo/BSPO_0000072) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**opisthosoma**](http://purl.obolibrary.org/obo/SPD_0000003) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**third cardiac artery**](http://purl.obolibrary.org/obo/OARCS_0000139) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**midgut**](http://purl.obolibrary.org/obo/SPD_0000628) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**silk gland**](http://purl.obolibrary.org/obo/SPD_0000631) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some (** [**posterior region**](http://purl.obolibrary.org/obo/BSPO_0000072) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**opisthosoma**](http://purl.obolibrary.org/obo/SPD_0000003) **))) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some (** [**lateral side**](http://purl.obolibrary.org/obo/BSPO_0000066) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**tubular heart**](http://purl.obolibrary.org/obo/OARCS_0000008) **))) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**tubular heart**](http://purl.obolibrary.org/obo/OARCS_0000008) **) and (** [**lateral\_to**](http://www.semanticweb.org/imiko/ontologies/2015/7/untitled-ontology-50#lateral_to) **some** [**posterior aorta**](http://purl.obolibrary.org/obo/OARCS_0000156) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**third cardiac artery system**](http://purl.obolibrary.org/obo/OARCS_0000098) **))**

Hemolymph vascular system (xref: OARCS:0000177) of the prosoma (SPD:0000002)

anterior aorta system (count: 1) (xref: OARCS:0000102)

- shape: tubular (PATO:0002299) AND branched (PATO:0000402)

- position: anterior-posterior axis (BSPO\_0000013) AND anterior region (BSPO\_0000071)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677):

tubular heart (xref: OARCS:0000008)

- constituents: anterior aorta (xref: OARCS:0000004) AND cheliceral artery system (xref: OARCS:0000078) AND optic artery system (xref: OARCS:0000030) AND epigastric artery system (xref: OARCS:0000291) AND

upper lip artery system (xref:OArCS:0000256) AND pedipalpal artery system (xref: OARCS:0000257) AND

first leg artery system (xref: OARCS:0000258) AND

second leg artery system (xref: OARCS:0000259) AND

third leg artery system (xref: OARCS:0000260) AND

fourth leg artery system (xref: OARCS:0000261) AND

supraneural artery system (xref: OARCS:0000262) AND

first dorsal prosomal artery system (xref: OARCS:0000277) AND

second dorsal prosomal artery system (xref: OARCS:0000276 ) AND

third dorsal prosomal artery system (xref: OARCS:0000275) AND

first ventral branching artery (xref: OARCS:0000279 ) AND

second ventral branching artery (xref: OARCS:0000278 ) AND

first lateral transganglionic artery (xref: OARCS:0000264) AND

second lateral transganglionic artery (xref: OARCS:0000265) AND

third lateral transganglionic artery (xref: OARCS:0000266) AND

fourth lateral transganglionic artery (xref: OARCS:0000267) AND

fifth lateral transganglionic artery (xref: OARCS:0000268) AND

sixth lateral transganglionic artery (xref: OARCS:0000269) AND

first median transganglionic artery system (xref: OARCS:0000271) AND second median transganglionic artery (xref: OARCS:0000287)

- connections: emanates\_from (RO:0002377): tubular heart (xref: OARCS:0000008)

[**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 1 (** [**anterior aorta system**](http://purl.obolibrary.org/obo/OARCS_0000102) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**optic artery system**](http://purl.obolibrary.org/obo/OARCS_0000030) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**cheliceral artery system**](http://purl.obolibrary.org/obo/OARCS_0000078) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**upper lip artery system**](http://purl.obolibrary.org/obo/OARCS_0000256) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**pedipalpal artery system**](http://purl.obolibrary.org/obo/OARCS_0000257) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**first leg artery system**](http://purl.obolibrary.org/obo/OARCS_0000258) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**second leg artery system**](http://purl.obolibrary.org/obo/OARCS_0000259) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**third leg artery system**](http://purl.obolibrary.org/obo/OARCS_0000260) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**fourth leg artery system**](http://purl.obolibrary.org/obo/OARCS_0000261) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**supraneural artery system**](http://purl.obolibrary.org/obo/OARCS_0000262) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**first lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000264) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**second lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000265) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**third lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000266) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**fourth lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000267) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**fifth lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000268) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**sixth lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000269) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**first median transganglionic artery system**](http://purl.obolibrary.org/obo/OARCS_0000271) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**third dorsal prosomal artery system**](http://purl.obolibrary.org/obo/OARCS_0000275) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**second dorsal prosomal artery system**](http://purl.obolibrary.org/obo/OARCS_0000276) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**first dorsal prosomal artery system**](http://purl.obolibrary.org/obo/OARCS_0000277) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**second ventral branching artery**](http://purl.obolibrary.org/obo/OARCS_0000278) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**first ventral branching artery**](http://purl.obolibrary.org/obo/OARCS_0000279) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**second median transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000287) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**epigastric artery system**](http://purl.obolibrary.org/obo/OARCS_0000291) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**distal region**](http://purl.obolibrary.org/obo/BSPO_0000078) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **))) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**tubular heart**](http://purl.obolibrary.org/obo/OARCS_0000008) **))) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**tubular heart**](http://purl.obolibrary.org/obo/OARCS_0000008) **) and (** [**parallel\_to**](http://purl.obolibrary.org/obo/bspo#parallel_to) **some** [**anterior-posterior axis**](http://purl.obolibrary.org/obo/BSPO_0000013) **) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 1** [**anterior aorta**](http://purl.obolibrary.org/obo/OARCS_0000004) **))**

anterior aorta (count: 1) (xref: OARCS:0000004)

- shape: tubular (PATO:0002299) AND unbranched (PATO:0000414)

- position: anterior-posterior axis (BSPO\_0000013) AND anterior region (BSPO\_0000071)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677):

tubular heart (xref: OARCS:0000008) AND

- constituents: -

- connections: emanates\_from (RO:0002377): tubular heart (xref: OARCS:0000008)

[**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 1 (** [**anterior aorta**](http://purl.obolibrary.org/obo/OARCS_0000004) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**tubular heart**](http://purl.obolibrary.org/obo/OARCS_0000008) **))) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**tubular heart**](http://purl.obolibrary.org/obo/OARCS_0000008) **) and (** [**parallel\_to**](http://purl.obolibrary.org/obo/bspo#parallel_to) **some** [**anterior-posterior axis**](http://purl.obolibrary.org/obo/BSPO_0000013) **))**

aortic arch (count: 1 pair) (xref: OARCS:0000105)

- shape: tubular (PATO:0002299) AND unbranched (PATO:0000414)

- position: anterior region (BSPO\_0000071)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677):

split bilaterally (PATO:0002171) FROM

anterior aorta (xref: OARCS:0000004) AND

distal margin (BSPO\_0000678): split (PATO:0001786) INTO

third leg artery (xref: OARCS:0000136) AND

fourth leg artery (xref: OARCS:0000135)

- constituents: -

- connections: emanates\_from (RO:0002377): anterior aorta (xref: OARCS:0000004)

[**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 1 (** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**anterior aorta**](http://purl.obolibrary.org/obo/OARCS_0000004) **))) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**distal margin**](http://purl.obolibrary.org/obo/BSPO_0000678) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**fourth leg artery**](http://purl.obolibrary.org/obo/OARCS_0000135) **) and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**third leg artery**](http://purl.obolibrary.org/obo/OARCS_0000136) **))) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**anterior aorta**](http://purl.obolibrary.org/obo/OARCS_0000004) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))**

cheliceral artery system (count: 1 pair) (xref: OARCS:0000078)

- shape: tubular (PATO:0002299) AND branched (PATO:0000402)

- position: anterior-posterior axis (BSPO\_0000013) AND anterior-most region (BSPO\_0000036)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): aortic arch (xref: OARCS:0000105) AND supplies (RO:0002178): chelicera (SPD:0000019) AND

eye (SPD:0000015) AND

venom gland (SPD:0000329) AND

labrum (SPD:0000288)

- constituents: cheliceral artery (xref: OARCS:0000133) AND optic artery system (xref: OARCS:0000030) AND upper lip artery system (xref: OARCS:0000256) AND first dorsal prosomal artery system (xref: OARCS:0000277) AND second dorsal prosomal artery system (xref: OARCS:0000276) AND first ventral branching artery (xref: OARCS:0000279) AND

second ventral branching artery (xref: OARCS:0000278)

- connections: emanates\_from (RO:0002377): aortic arch (xref: OARCS:0000105)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**cheliceral artery system**](http://purl.obolibrary.org/obo/OARCS_0000078) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior-most region**](http://purl.obolibrary.org/obo/BSPO_0000036) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**second dorsal prosomal artery system**](http://purl.obolibrary.org/obo/OARCS_0000276) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**first dorsal prosomal artery system**](http://purl.obolibrary.org/obo/OARCS_0000277) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**second ventral branching artery**](http://purl.obolibrary.org/obo/OARCS_0000278) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**first ventral branching artery**](http://purl.obolibrary.org/obo/OARCS_0000279) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **) and (** [**parallel\_to**](http://purl.obolibrary.org/obo/bspo#parallel_to) **some** [**anterior-posterior axis**](http://purl.obolibrary.org/obo/BSPO_0000013) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**cheliceral artery system**](http://purl.obolibrary.org/obo/OARCS_0000078) **) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**optic artery system**](http://purl.obolibrary.org/obo/OARCS_0000030) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**optic artery system**](http://purl.obolibrary.org/obo/OARCS_0000030) **))) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **))) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**upper lip artery system**](http://purl.obolibrary.org/obo/OARCS_0000256) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**upper lip artery system**](http://purl.obolibrary.org/obo/OARCS_0000256) **))))**

cheliceral artery (count: 1 pair) (xref: OARCS:0000133)

- shape: tubular (PATO:0002299) AND unbranched (PATO:0000414)

- position: anterior region (BSPO\_0000071)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): aortic arch (xref: OARCS:0000105) AND supplies (RO:0002178): chelicera (SPD:0000019)

- constituents: -

- connections: emanates\_from (RO:0002377): aortic arch (xref: OARCS:0000105)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**chelicera**](http://purl.obolibrary.org/obo/SPD_0000019) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1**[**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **))**

optic artery system (count: 1 pair) (xref: OARCS:0000030)

- shape: tubular (PATO:0002299) AND branched (PATO:0000402)

- position: anterior-most region (BSPO\_0000036) AND dorsal side (BSPO\_0000063)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677):

cheliceral artery (xref: OARCS:0000133) AND

supplies (RO:0002178): eye (SPD:0000015) AND

venom gland (SPD:0000329)

- constituents: optic artery (xref: OARCS:0000193)

- connections: emanates\_from (RO:0002377): cheliceral artery (xref: OARCS:0000133)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**optic artery system**](http://purl.obolibrary.org/obo/OARCS_0000030) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior-most region**](http://purl.obolibrary.org/obo/BSPO_0000036) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**dorsal side**](http://purl.obolibrary.org/obo/BSPO_0000063) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **))) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**eye**](http://purl.obolibrary.org/obo/SPD_0000015) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**venom gland**](http://purl.obolibrary.org/obo/SPD_0000329) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**optic artery system**](http://purl.obolibrary.org/obo/OARCS_0000030) **) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 1 (** [**optic artery**](http://purl.obolibrary.org/obo/OARCS_0000193) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**optic artery**](http://purl.obolibrary.org/obo/OARCS_0000193) **))))**

optic artery (count: 1 pair) (xref: OARCS:0000193)

- shape: tubular (PATO:0002299) AND unbranched (PATO:0000414)

- position: anterior region (BSPO\_0000071) AND dorsal side (BSPO\_0000063)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677):

cheliceral artery (xref: OARCS:0000133) AND

supplies (RO:0002178): eye (SPD:0000015)

- constituents: -

- connections: emanates\_from (RO:0002377): cheliceral artery (xref: OARCS:0000133)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**optic artery**](http://purl.obolibrary.org/obo/OARCS_0000193) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**dorsal side**](http://purl.obolibrary.org/obo/BSPO_0000063) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **))) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**eye**](http://purl.obolibrary.org/obo/SPD_0000015) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1**[**optic artery**](http://purl.obolibrary.org/obo/OARCS_0000193) **))**

upper lip artery system (count: 1) (xref: OARCS:0000256)

- shape: tubular (PATO:0002299) AND branched (PATO:0000402)

- position: anterior region (BSPO\_0000071) AND ventral side (BSPO\_0000068) AND dorsal-ventral axis (BSPO\_0000016)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677):

right (PATO:0000367) cheliceral artery (xref: OARCS:0000133)

AND supplies (RO:0002178): labrum (SPD:0000288)

- constituents: upper lip artery (xref: OARCS:0000119)

- connections: emanates\_from (RO:0002377): right (PATO:0000367) cheliceral artery (xref: OARCS:0000133)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**upper lip artery system**](http://purl.obolibrary.org/obo/OARCS_0000256) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some (** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**right**](http://purl.obolibrary.org/obo/PATO_0000367) **))))) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**labrum**](http://purl.obolibrary.org/obo/SPD_0000288) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some (** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **and (**[**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**right**](http://purl.obolibrary.org/obo/PATO_0000367) **))) and (** [**parallel\_to**](http://purl.obolibrary.org/obo/bspo#parallel_to) **some** [**dorsal-ventral axis**](http://purl.obolibrary.org/obo/BSPO_0000016) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**upper lip artery system**](http://purl.obolibrary.org/obo/OARCS_0000256) **) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 1** [**upper lip artery**](http://purl.obolibrary.org/obo/OARCS_0000119) **))**

upper lip artery (count: 1) (xref: OARCS:0000119)

- shape: tubular (PATO:0002299) AND unbranched (PATO:0000414)

- position: anterior region (BSPO\_0000071) AND ventral side (BSPO\_0000068) AND dorsal-ventral axis (BSPO\_0000016)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677):

right (PATO:0000367) cheliceral artery (xref: OARCS:0000133)

AND supplies (RO:0002178): labrum (SPD:0000288)

- constituents: -

- connections: emanates\_from (RO:0002377): right (PATO:0000367) cheliceral artery (xref: OARCS:0000133)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**upper lip artery**](http://purl.obolibrary.org/obo/OARCS_0000119) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some (** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**right**](http://purl.obolibrary.org/obo/PATO_0000367) **))))) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**labrum**](http://purl.obolibrary.org/obo/SPD_0000288) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some (** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **and (**[**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**right**](http://purl.obolibrary.org/obo/PATO_0000367) **))) and (** [**parallel\_to**](http://purl.obolibrary.org/obo/bspo#parallel_to) **some** [**dorsal-ventral axis**](http://purl.obolibrary.org/obo/BSPO_0000016) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**upper lip artery**](http://purl.obolibrary.org/obo/OARCS_0000119) **))**

first dorsal prosomal artery system (count: 1 pair) (xref: OARCS:0000277)

- shape: tubular (PATO:0002299) AND branched (PATO:0000402)

- position: anterior region (BSPO\_0000071) AND

dorsal side (BSPO\_0000063)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677):

cheliceral artery (xref: OARCS:0000133)

proximal to (PATO\_0001195) first ventral branching artery

(xref: OARCS:0000279)

- constituents: first dorsal prosomal artery (xref: OARCS:0000274)

- connections: emanates\_from (RO:0002377): cheliceral artery (xref: OARCS:0000133)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**first dorsal prosomal artery system**](http://purl.obolibrary.org/obo/OARCS_0000277) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**dorsal side**](http://purl.obolibrary.org/obo/BSPO_0000063) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**first dorsal prosomal artery**](http://purl.obolibrary.org/obo/OARCS_0000274) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **))) and (** [**proximal\_to**](http://purl.obolibrary.org/obo/BSPO_0000100) **some** [**first ventral branching artery**](http://purl.obolibrary.org/obo/OARCS_0000279) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**first dorsal prosomal artery system**](http://purl.obolibrary.org/obo/OARCS_0000277) **))**

first dorsal prosomal artery (count: 1 pair) (xref: OARCS:0000274)

- shape: tubular (PATO:0002299) AND unbranched (PATO\_0000414)

- position: anterior region (BSPO\_0000071) AND

dorsal side (BSPO\_0000063)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677):

cheliceral artery (xref: OARCS:0000133)

proximal to (PATO\_0001195) first ventral branching artery (xref: OARCS:0000279)

- constituents: -

- connections: emanates\_from (RO:0002377): cheliceral artery (xref: OARCS:0000133)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**first dorsal prosomal artery**](http://purl.obolibrary.org/obo/OARCS_0000274) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**part\_of**](http://purl.obolibrary.org/obo/BFO_0000050) **some** [**dorsal side**](http://purl.obolibrary.org/obo/BSPO_0000063) **) and (** [**part\_of**](http://purl.obolibrary.org/obo/BFO_0000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **))) and (** [**proximal\_to**](http://purl.obolibrary.org/obo/BSPO_0000100) **some** [**first ventral branching artery**](http://purl.obolibrary.org/obo/OARCS_0000279) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**first dorsal prosomal artery**](http://purl.obolibrary.org/obo/OARCS_0000274) **))**

second dorsal prosomal artery system (count: 1 pair) (xref: OARCS:0000276 )

- shape: tubular (PATO:0002299) AND branched (PATO:0000402)

- position: anterior region (BSPO\_0000071) AND

dorsal side (BSPO\_0000063)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677):

cheliceral artery (xref: OARCS:0000133)

proximal to (PATO\_0001195) second ventral branching artery (xref: OARCS:0000278)

- constituents: second dorsal prosomal artery (xref: OARCS:0000273)

- connections: emanates\_from (RO:0002377): cheliceral artery (xref: OARCS:0000133)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**second dorsal prosomal artery system**](http://purl.obolibrary.org/obo/OARCS_0000276) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**dorsal side**](http://purl.obolibrary.org/obo/BSPO_0000063) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**second dorsal prosomal artery**](http://purl.obolibrary.org/obo/OARCS_0000273) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **))) and (** [**distal\_to**](http://purl.obolibrary.org/obo/BSPO_0000097) **some** [**second ventral branching artery**](http://purl.obolibrary.org/obo/OARCS_0000278) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**second dorsal prosomal artery system**](http://purl.obolibrary.org/obo/OARCS_0000276) **))**

second dorsal prosomal artery (count: 1 pair) (xref: OARCS:0000273)

- shape: tubular (PATO:0002299) AND unbranched (PATO\_0000414)

- position: anterior region (BSPO\_0000071) AND

dorsal side (BSPO\_0000063)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677):

cheliceral artery (xref: OARCS:0000133)

proximal to (PATO\_0001195) second ventral branching artery (xref: OARCS:0000278)

- constituents: -

- connections: emanates\_from (RO:0002377): cheliceral artery (xref: OARCS:0000133)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**second dorsal prosomal artery**](http://purl.obolibrary.org/obo/OARCS_0000273) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**dorsal side**](http://purl.obolibrary.org/obo/BSPO_0000063) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **))) and (** [**distal\_to**](http://purl.obolibrary.org/obo/BSPO_0000097) **some** [**second ventral branching artery**](http://purl.obolibrary.org/obo/OARCS_0000278) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**second dorsal prosomal artery**](http://purl.obolibrary.org/obo/OARCS_0000273) **))**

third dorsal prosomal artery system (count: 1 pair) (xref: OARCS:0000275)

- shape: tubular (PATO:0002299) AND branched (PATO:0000402)

- position: anterior region (BSPO\_0000071) AND

dorsal side (BSPO\_0000063)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677):

proximal margin (BSPO\_0000677) aortic arch

(xref: OARCS:0000105) proximal to (PATO\_0001195) epigastric artery (xref: OARCS:0000290) AND

supplies (RO:0002178): postero-dorsal region (BSPO\_0000030) prosoma (SPD:0000002)

- constituents: third dorsal prosomal artery (xref: OARCS:0000272)

- connections: emanates\_from (RO:0002377): proximal margin (BSPO\_0000677) aortic arch (xref: OARCS:0000105)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**third dorsal prosomal artery system**](http://purl.obolibrary.org/obo/OARCS_0000275) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**dorsal side**](http://purl.obolibrary.org/obo/BSPO_0000063) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**third dorsal prosomal artery**](http://purl.obolibrary.org/obo/OARCS_0000272) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))) and (** [**proximal\_to**](http://purl.obolibrary.org/obo/BSPO_0000100) **some** [**epigastric artery**](http://purl.obolibrary.org/obo/OARCS_0000290) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some (** [**postero-dorsal region**](http://purl.obolibrary.org/obo/BSPO_0000030) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **))) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**third dorsal prosomal artery system**](http://purl.obolibrary.org/obo/OARCS_0000275) **))**

third dorsal prosomal artery (count: 1 pair) (xref: OARCS:0000272)

- shape: tubular (PATO:0002299) AND unbranched (PATO\_0000414)

- position: anterior region (BSPO\_0000071) AND

dorsal side (BSPO\_0000063)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677):

proximal margin (BSPO\_0000677) aortic arch (xref: OARCS:0000105) proximal to (PATO\_0001195) epigastric artery (xref: OARCS:0000290)

- constituents: -

- connections: emanates\_from (RO:0002377): proximal margin (BSPO\_0000677) aortic arch (xref: OARCS:0000105)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (****'**[**third dorsal prosomal artery**](http://purl.obolibrary.org/obo/OARCS_0000272)**' and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**dorsal side**](http://purl.obolibrary.org/obo/BSPO_0000063) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))) and (** [**proximal\_to**](http://purl.obolibrary.org/obo/BSPO_0000100) **some** [**epigastric artery**](http://purl.obolibrary.org/obo/OARCS_0000290) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some (** [**postero-dorsal region**](http://purl.obolibrary.org/obo/BSPO_0000030) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **))) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some**[**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1****'**[**third dorsal prosomal artery**](http://purl.obolibrary.org/obo/OARCS_0000272)**' ))**

epigastric artery system (count: 1 pair) (xref: OARCS:0000291)

- shape: tubular (PATO:0002299) AND branched (PATO:0000402)

- position: anterior region (BSPO\_0000071) AND

dorsal side (BSPO\_0000063)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677):

proximal margin (BSPO\_0000677) aortic arch

(xref: OARCS:0000105) distal to (PATO\_0001234) third dorsal prosomal artery (xref: OARCS:0000272)AND

supplies (RO:0002178): dorsal musculature (UBERON\_0001015):

sucking stomach (SPD\_0000630)

- constituents: epigastric artery (xref: OARCS:0000290)

- connections: emanates\_from (RO:0002377): proximal margin (BSPO\_0000677) aortic arch (xref: OARCS:0000105)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**epigastric artery system**](http://purl.obolibrary.org/obo/OARCS_0000291) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**dorsal side**](http://purl.obolibrary.org/obo/BSPO_0000063) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**epigastric artery**](http://purl.obolibrary.org/obo/OARCS_0000290) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))) and (** [**distal\_to**](http://purl.obolibrary.org/obo/BSPO_0000097) **some** [**third dorsal prosomal artery**](http://purl.obolibrary.org/obo/OARCS_0000272) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some (** [**musculature**](http://purl.obolibrary.org/obo/UBERON_0001015) **and ((** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**dorsal region**](http://purl.obolibrary.org/obo/BSPO_0000079) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**sucking stomach**](http://purl.obolibrary.org/obo/SPD_0000630) **)))) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**epigastric artery system**](http://purl.obolibrary.org/obo/OARCS_0000291) **))**

epigastric artery (count: 1 pair) (xref: OARCS:0000290)

- shape: tubular (PATO:0002299) AND unbranched (PATO\_0000414)

- position: anterior region (BSPO\_0000071) AND

dorsal side (BSPO\_0000063)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677):

proximal margin (BSPO\_0000677): aortic arch

(xref: OARCS:0000105) distal to (PATO\_0001234) third dorsal prosomal artery (xref: OARCS:0000272)

- constituents: -

- connections: emanates\_from (RO:0002377): proximal margin (BSPO\_0000677) aortic arch

(xref: OARCS:0000105)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**epigastric artery**](http://purl.obolibrary.org/obo/OARCS_0000290) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**dorsal side**](http://purl.obolibrary.org/obo/BSPO_0000063) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))) and (** [**distal\_to**](http://purl.obolibrary.org/obo/BSPO_0000097) **some** [**third dorsal prosomal artery**](http://purl.obolibrary.org/obo/OARCS_0000272) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**epigastric artery**](http://purl.obolibrary.org/obo/OARCS_0000290) **))**

first ventral branching artery (count: 1 pairs) (xref: OARCS:0000279)

- shape: tubular (PATO:0002299) AND unbranched (PATO\_0000414)

- position: anterior region (BSPO\_0000071)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677):

cheliceral artery (xref: OARCS:0000133)

distal to (PATO\_0001234) first dorsal branching

artery (xref: OARCS:0000274) AND

proximal to (PATO\_0001195) optic artery

(xref: OARCS:0000193)

- constituents: -

- connections: emanates\_from (RO:0002377): cheliceral artery (xref: OARCS:0000133)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**first ventral branching artery**](http://purl.obolibrary.org/obo/OARCS_0000279) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**dorsal side**](http://purl.obolibrary.org/obo/BSPO_0000063) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **))) and (** [**distal\_to**](http://purl.obolibrary.org/obo/BSPO_0000097) **some** [**first dorsal prosomal artery**](http://purl.obolibrary.org/obo/OARCS_0000274) **) and (** [**proximal\_to**](http://purl.obolibrary.org/obo/BSPO_0000100) **some** [**optic artery**](http://purl.obolibrary.org/obo/OARCS_0000193) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**cheliceral artery**](http://purl.obolibrary.org/obo/OARCS_0000133) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**first ventral branching artery**](http://purl.obolibrary.org/obo/OARCS_0000279) **))**

second ventral branching artery (count: 1 pairs) (xref: OARCS:0000278)

- shape: tubular (PATO:0002299) AND unbranched (PATO\_0000414)

- position: anterior region (BSPO\_0000071)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677):

cheliceral artery (xref: OARCS:0000133)

distal to (PATO\_0001234) second dorsal branching

artery (xref: OARCS:0000273) AND

proximal to (PATO\_0001195) first dorsal branching

artery (xref: OARCS:0000274)

- constituents: -

- connections: emanates\_from (RO:0002377): cheliceral artery (xref: OARCS:0000133)

[has part](http://purl.obolibrary.org/obo/BFO_0000051) exactly 2 ( [second ventral branching artery](http://purl.obolibrary.org/obo/OARCS_0000278) and ( [part of](http://purl.obolibrary.org/obo/BFO_00000050) some [dorsal side](http://purl.obolibrary.org/obo/BSPO_0000063) ) and ( [part of](http://purl.obolibrary.org/obo/BFO_00000050) some [anterior region](http://purl.obolibrary.org/obo/BSPO_0000071) ) and ( [part of](http://purl.obolibrary.org/obo/BFO_00000050) some [prosoma](http://purl.obolibrary.org/obo/SPD_0000002) ) and ( [has part](http://purl.obolibrary.org/obo/BFO_0000051) some ( [proximal margin](http://purl.obolibrary.org/obo/BSPO_0000677) and ( [continuous with](http://purl.obolibrary.org/obo/RO_0002150) some [cheliceral artery](http://purl.obolibrary.org/obo/OARCS_0000133) ))) and ( [distal\_to](http://purl.obolibrary.org/obo/BSPO_0000097) some [second dorsal prosomal artery](http://purl.obolibrary.org/obo/OARCS_0000273) ) and ( [proximal\_to](http://purl.obolibrary.org/obo/BSPO_0000100) some [first dorsal prosomal artery](http://purl.obolibrary.org/obo/OARCS_0000274) ) and ( [bearer of](http://purl.obolibrary.org/obo/RO_0000053) some [unbranched](http://purl.obolibrary.org/obo/PATO_0000414) ) and ( [bearer of](http://purl.obolibrary.org/obo/RO_0000053) some [tubular](http://purl.obolibrary.org/obo/PATO_0002299) ) and ( [emanates\_from](http://purl.obolibrary.org/obo/RO_0002377) some [cheliceral artery](http://purl.obolibrary.org/obo/OARCS_0000133) ) and ( [contralateral\_to](http://purl.obolibrary.org/obo/BSPO_0000106) exactly 1 [second ventral branching artery](http://purl.obolibrary.org/obo/OARCS_0000278) ))

pedipalpal artery system (count: 1 pair) (xref: OARCS:0000257)

- shape: tubular (PATO:0002299) AND

branched (PATO:0000402)

- position: anterior region (BSPO\_0000071) AND

ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): proximal region (BSPO\_0000077):

first leg artery (xref: OARCS:0000138) AND

supplies (RO:0002178): palp (SPD\_0000335)

- constituents: pedipalpal artery (xref: OARCS:0000134) AND

first lateral transganglionic artery (xref: OARCS:0000264)

- connections: emanates\_from (RO:0002377):

first leg artery (xref: OARCS:0000138)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**pedipalpal artery system**](http://purl.obolibrary.org/obo/OARCS_0000257) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some (** [**proximal region**](http://purl.obolibrary.org/obo/BSPO_0000077) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**first leg artery**](http://purl.obolibrary.org/obo/OARCS_0000138) **))))) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**palp**](http://purl.obolibrary.org/obo/SPD_0000335) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**first leg artery**](http://purl.obolibrary.org/obo/OARCS_0000138) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**pedipalpal artery system**](http://purl.obolibrary.org/obo/OARCS_0000257) **) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**pedipalpal artery**](http://purl.obolibrary.org/obo/OARCS_0000134) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**pedipalpal artery**](http://purl.obolibrary.org/obo/OARCS_0000134) **))) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**first lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000264) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**first lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000264) **))))**

pedipalpal artery (count: 1 pair) (xref: OARCS:0000134)

- shape: tubular (PATO:0002299) AND unbranched (PATO\_0000414)

- position: anterior region (BSPO\_0000071) AND

ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): proximal region (BSPO\_0000077):

first leg artery (xref: OARCS:0000138)

- constituents: -

- connections: emanates\_from (RO:0002377):

first leg artery (xref: OARCS:0000138)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**pedipalpal artery**](http://purl.obolibrary.org/obo/OARCS_0000134) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some (** [**proximal region**](http://purl.obolibrary.org/obo/BSPO_0000077) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**first leg artery**](http://purl.obolibrary.org/obo/OARCS_0000138) **))))) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**labrum**](http://purl.obolibrary.org/obo/SPD_0000288) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**first leg artery**](http://purl.obolibrary.org/obo/OARCS_0000138) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**pedipalpal artery**](http://purl.obolibrary.org/obo/OARCS_0000134) **))**

first leg artery system (count: 1 pairs) (xref: OARCS:0000258)

- shape: tubular (PATO:0002299) AND

branched (PATO:0000402)

- position: anterior region (BSPO\_0000071) AND

ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): aortic arch (xref: OARCS:0000105)

proximal to (PATO\_0001195) second leg artery

(xref: OARCS:0000138) AND

supplies (RO:0002178): leg 1 (SPD\_0000021)

- constituents: first leg artery (xref: OARCS:0000138) AND

second lateral transganglionic artery (xref: OARCS:0000265)

- connections: emanates\_from (RO:0002377): aortic arch (xref: OARCS:0000105)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**first leg artery system**](http://purl.obolibrary.org/obo/OARCS_0000258) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))) and (** [**proximal\_to**](http://purl.obolibrary.org/obo/BSPO_0000100) **some** [**second leg artery**](http://purl.obolibrary.org/obo/OARCS_0000137) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**leg I**](http://purl.obolibrary.org/obo/SPD_0000021) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**first leg artery system**](http://purl.obolibrary.org/obo/OARCS_0000258) **) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**first leg artery**](http://purl.obolibrary.org/obo/OARCS_0000138) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**first leg artery**](http://purl.obolibrary.org/obo/OARCS_0000138) **))) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**second lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000265) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**second lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000265) **))))**

first leg artery (count: 1 pair) (xref: OARCS:0000138)

- shape: tubular (PATO:0002299) AND unbranched (PATO\_0000414)

- position: anterior region (BSPO\_0000071) AND

ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): aortic arch (xref: OARCS:0000105)

proximal to (PATO\_0001195) second leg artery

(xref: OARCS:0000138)

- constituents: -

- connections: emanates\_from (RO:0002377): aortic arch (xref: OARCS:0000105)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**first leg artery**](http://purl.obolibrary.org/obo/OARCS_0000138) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))) and (** [**proximal\_to**](http://purl.obolibrary.org/obo/BSPO_0000100) **some** [**second leg artery**](http://purl.obolibrary.org/obo/OARCS_0000137) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**first leg artery**](http://purl.obolibrary.org/obo/OARCS_0000138) **))**

second leg artery system (count: 1 pairs) (xref: OARCS:0000259)

- shape: tubular (PATO:0002299) AND

branched (PATO:0000402)

- position: anterior region (BSPO\_0000071) AND

ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): aortic arch (xref: OARCS:0000105)

proximal to (PATO\_0001195) third leg artery

(xref: OARCS:0000136) AND distal to (PATO\_0001234) first leg artery (xref: OARCS:0000138) AND

supplies (RO:0002178): leg 2 (SPD\_0000022)

- constituents: second leg artery (xref: OARCS:0000137) AND

third lateral transganglionic artery (xref: OARCS:0000266)

- connections: emanates\_from (RO:0002377): aortic arch (xref: OARCS:0000105)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**second leg artery system**](http://purl.obolibrary.org/obo/OARCS_0000259) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))) and (** [**distal\_to**](http://purl.obolibrary.org/obo/BSPO_0000097) **some** [**first leg artery**](http://purl.obolibrary.org/obo/OARCS_0000138) **) and (** [**proximal\_to**](http://purl.obolibrary.org/obo/BSPO_0000100) **some** [**third leg artery**](http://purl.obolibrary.org/obo/OARCS_0000136) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**leg II**](http://purl.obolibrary.org/obo/SPD_0000022) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**second leg artery system**](http://purl.obolibrary.org/obo/OARCS_0000259) **) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**second leg artery**](http://purl.obolibrary.org/obo/OARCS_0000137) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**second leg artery**](http://purl.obolibrary.org/obo/OARCS_0000137) **))) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**third lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000266) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**second lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000265) **))))**

second leg artery (count: 1 pair) (xref: OARCS:0000137)

- shape: tubular (PATO:0002299) AND unbranched (PATO\_0000414)

- position: anterior region (BSPO\_0000071) AND

ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): aortic arch (xref: OARCS:0000105)

proximal to (PATO\_0001195) third leg artery

(xref: OARCS:0000136) AND distal to (PATO\_0001234) first leg artery (xref: OARCS:0000138)

- constituents: -

- connections: emanates\_from (RO:0002377): aortic arch (xref: OARCS:0000105)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**second leg artery**](http://purl.obolibrary.org/obo/OARCS_0000137) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))) and (** [**distal\_to**](http://purl.obolibrary.org/obo/BSPO_0000097) **some** [**first leg artery**](http://purl.obolibrary.org/obo/OARCS_0000138) **) and (** [**proximal\_to**](http://purl.obolibrary.org/obo/BSPO_0000100) **some** [**third leg artery**](http://purl.obolibrary.org/obo/OARCS_0000136) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**second leg artery**](http://purl.obolibrary.org/obo/OARCS_0000137) **))**

third leg artery system (count: 1 pairs) (xref: OARCS:0000260)

- shape: tubular (PATO:0002299) AND

branched (PATO:0000402)

- position: anterior region (BSPO\_0000071) AND

ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): aortic arch (xref: OARCS:0000105)

proximal to (PATO\_0001195) fourth leg artery

(xref: OARCS:0000135) AND distal to (PATO\_0001234) second leg artery (xref: OARCS:0000137) AND

supplies (RO:0002178): leg 3 (SPD\_0000023)

- constituents: third leg artery (xref: OARCS:0000136) AND

fourth lateral transganglionic artery (xref: OARCS:0000267) AND

- connections: emanates\_from (RO:0002377): aortic arch (xref: OARCS:0000105)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**third leg artery system**](http://purl.obolibrary.org/obo/OARCS_0000260) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))) and (** [**distal\_to**](http://purl.obolibrary.org/obo/BSPO_0000097) **some** [**second leg artery**](http://purl.obolibrary.org/obo/OARCS_0000137) **) and (** [**proximal\_to**](http://purl.obolibrary.org/obo/BSPO_0000100) **some** [**fourth leg artery**](http://purl.obolibrary.org/obo/OARCS_0000135) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**leg III**](http://purl.obolibrary.org/obo/SPD_0000023) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**third leg artery system**](http://purl.obolibrary.org/obo/OARCS_0000260) **) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**third leg artery**](http://purl.obolibrary.org/obo/OARCS_0000136) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**third leg artery**](http://purl.obolibrary.org/obo/OARCS_0000136) **))) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**fourth lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000267) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**fourth lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000267) **))))**

third leg artery (count: 1 pair) (xref: OARCS:0000136)

- shape: tubular (PATO:0002299) AND unbranched (PATO\_0000414)

- position: anterior region (BSPO\_0000071) AND

ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): aortic arch (xref: OARCS:0000105)

proximal to (PATO\_0001195) fourth leg artery

(xref: OARCS:0000135) AND distal to (PATO\_0001234) second leg artery (xref: OARCS:0000137)

- constituents: -

- connections: emanates\_from (RO:0002377): aortic arch (xref: OARCS:0000105)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**third leg artery**](http://purl.obolibrary.org/obo/OARCS_0000136) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))) and (** [**distal\_to**](http://purl.obolibrary.org/obo/BSPO_0000097) **some** [**second leg artery**](http://purl.obolibrary.org/obo/OARCS_0000137) **) and (** [**proximal\_to**](http://purl.obolibrary.org/obo/BSPO_0000100) **some** [**fourth leg artery**](http://purl.obolibrary.org/obo/OARCS_0000135) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**third leg artery**](http://purl.obolibrary.org/obo/OARCS_0000136) **))**

fourth leg artery system (count: 1 pairs) (xref: OARCS:0000261)

- shape: tubular (PATO:0002299) AND

branched (PATO:0000402)

- position: anterior region (BSPO\_0000071) AND

ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): aortic arch (xref: OARCS:0000105)

distal to (PATO\_0001234) third leg artery (xref: OARCS:0000136) AND

supplies (RO:0002178): leg 4 (SPD\_0000024)

- constituents: fourth leg artery (xref: OARCS:0000135) AND

fifth lateral transganglionic artery (xref: OARCS:0000268) AND

sixth lateral transganglionic artery (xref: OARCS:0000269)

- connections: emanates\_from (RO:0002377): aortic arch (xref: OARCS:0000105)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**fourth leg artery system**](http://purl.obolibrary.org/obo/OARCS_0000261) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))) and (** [**distal\_to**](http://purl.obolibrary.org/obo/BSPO_0000097) **some** [**third leg artery**](http://purl.obolibrary.org/obo/OARCS_0000136) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**leg 4**](http://purl.obolibrary.org/obo/SPD_0000024) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**fourth leg artery system**](http://purl.obolibrary.org/obo/OARCS_0000261) **) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2** [**sixth lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000269) **) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**fourth leg artery**](http://purl.obolibrary.org/obo/OARCS_0000135) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**fourth leg artery**](http://purl.obolibrary.org/obo/OARCS_0000135) **))) and (** [**has component**](http://purl.obolibrary.org/obo/RO_0002180) **exactly 2 (** [**fifth lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000268) **and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**fifth lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000268) **))))**

fourth leg artery (count: 1 pair) (xref: OARCS:0000135)

- shape: tubular (PATO:0002299) AND unbranched (PATO\_0000414)

- position: anterior region (BSPO\_0000071) AND

ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): aortic arch (xref: OARCS:0000105)

distal to (PATO\_0001234) third leg artery (xref: OARCS:0000136)

- constituents: -

- connections: emanates\_from (RO:0002377): aortic arch (xref: OARCS:0000105)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**fourth leg artery**](http://purl.obolibrary.org/obo/OARCS_0000135) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))) and (** [**distal\_to**](http://purl.obolibrary.org/obo/BSPO_0000097) **some** [**third leg artery**](http://purl.obolibrary.org/obo/OARCS_0000136) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**fourth leg artery**](http://purl.obolibrary.org/obo/OARCS_0000135) **))**

first lateral transganglionic artery (count: 1 pairs) (xref: OARCS:0000264)

- shape: tubular (PATO:0002299) AND unbranched (PATO:0000414)

- position: anterior region (BSPO\_0000071) AND ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): pedipalpal artery

(xref: OARCS:0000134) AND

distal margin (BSPO\_0000678): ventral to (BSPO\_0000102)

suboesophageal ganglion (SPD\_0000626)

- constituents: -

- connections: emanates\_from (RO:0002377): anterior side (BSPO\_0000055): pedipalpal artery (xref: OARCS:0000134)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**first lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000264) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**pedipalpal artery**](http://purl.obolibrary.org/obo/OARCS_0000134) **))) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**distal margin**](http://purl.obolibrary.org/obo/BSPO_0000678) **and (** [**ventral\_to**](http://purl.obolibrary.org/obo/BSPO_0000102) **some** [**subesophageal ganglion**](http://purl.obolibrary.org/obo/SPD_0000626) **))) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some (** [**anterior side**](http://purl.obolibrary.org/obo/BSPO_0000055) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**pedipalpal artery**](http://purl.obolibrary.org/obo/OARCS_0000134) **))) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**first lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000264) **))**

second lateral transganglionic artery (count: 1 pairs) (xref: OARCS:0000265)

- shape: tubular (PATO:0002299) AND unbranched (PATO:0000414)

- position: anterior region (BSPO\_0000071) AND ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): first leg artery

(xref: OARCS:0000138) AND

distal margin (BSPO\_0000678): ventral to (BSPO\_0000102)

suboesophageal ganglion (SPD\_0000626)

- constituents: -

- connections: emanates\_from (RO:0002377): anterior side (BSPO\_0000055): first leg artery (xref: OARCS:0000138)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**second lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000265) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**first leg artery**](http://purl.obolibrary.org/obo/OARCS_0000138) **))) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**distal margin**](http://purl.obolibrary.org/obo/BSPO_0000678) **and (** [**ventral\_to**](http://purl.obolibrary.org/obo/BSPO_0000102) **some** [**subesophageal ganglion**](http://purl.obolibrary.org/obo/SPD_0000626) **))) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some (** [**anterior side**](http://purl.obolibrary.org/obo/BSPO_0000055) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**first leg artery**](http://purl.obolibrary.org/obo/OARCS_0000138) **))) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**second lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000265) **))**

third lateral transganglionic artery (count: 1 pairs) (xref: OARCS:0000266)

- shape: tubular (PATO:0002299) AND unbranched (PATO:0000414)

- position: anterior region (BSPO\_0000071) AND ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): second leg artery

(xref: OARCS:0000137) AND

distal margin (BSPO\_0000678): ventral to (BSPO\_0000102)

suboesophageal ganglion (SPD\_0000626)

- constituents: -

- connections: emanates\_from (RO:0002377):

anterior side (BSPO\_0000055): second leg artery (xref: OARCS:0000137)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**third lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000266) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**second leg artery**](http://purl.obolibrary.org/obo/OARCS_0000137) **))) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**distal margin**](http://purl.obolibrary.org/obo/BSPO_0000678) **and (** [**ventral\_to**](http://purl.obolibrary.org/obo/BSPO_0000102) **some** [**subesophageal ganglion**](http://purl.obolibrary.org/obo/SPD_0000626) **))) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some (** [**anterior side**](http://purl.obolibrary.org/obo/BSPO_0000055) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**second leg artery**](http://purl.obolibrary.org/obo/OARCS_0000137) **))) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**third lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000266) **))**

fourth lateral transganglionic artery (count: 1 pairs) (xref: OARCS:0000267)

- shape: tubular (PATO:0002299) AND unbranched (PATO:0000414)

- position: anterior region (BSPO\_0000071) AND ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): third leg artery

(xref: OARCS:0000136) AND

distal margin (BSPO\_0000678): ventral to (BSPO\_0000102)

suboesophageal ganglion (SPD\_0000626)

- constituents: -

- connections: emanates\_from (RO:0002377):

anterior side (BSPO\_0000055): third leg artery (xref: OARCS:0000136)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**fourth lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000267) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**third leg artery**](http://purl.obolibrary.org/obo/OARCS_0000136) **))) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**distal margin**](http://purl.obolibrary.org/obo/BSPO_0000678) **and (** [**ventral\_to**](http://purl.obolibrary.org/obo/BSPO_0000102) **some** [**subesophageal ganglion**](http://purl.obolibrary.org/obo/SPD_0000626) **))) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some (** [**anterior side**](http://purl.obolibrary.org/obo/BSPO_0000055) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**third leg artery**](http://purl.obolibrary.org/obo/OARCS_0000136) **))) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**fourth lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000267) **))**

fifth lateral transganglionic artery (count: 1 pairs) (xref: OARCS:0000268)

- shape: tubular (PATO:0002299) AND unbranched (PATO:0000414)

- position: anterior region (BSPO\_0000071) AND ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): fourth leg artery

(xref: OARCS:0000135) AND

distal margin (BSPO\_0000678): ventral to (BSPO\_0000102)

suboesophageal ganglion (SPD\_0000626)

- constituents: -

- connections: emanates\_from (RO:0002377):

anterior side (BSPO\_0000055): fourth leg artery (xref: OARCS:0000135)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**fifth lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000268) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**fourth leg artery**](http://purl.obolibrary.org/obo/OARCS_0000135) **))) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**distal margin**](http://purl.obolibrary.org/obo/BSPO_0000678) **and (** [**ventral\_to**](http://purl.obolibrary.org/obo/BSPO_0000102) **some** [**subesophageal ganglion**](http://purl.obolibrary.org/obo/SPD_0000626) **))) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some (** [**anterior side**](http://purl.obolibrary.org/obo/BSPO_0000055) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**fourth leg artery**](http://purl.obolibrary.org/obo/OARCS_0000135) **))) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**fifth lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000268) **))**

sixth lateral transganglionic artery (count: 1 pairs) (xref: OARCS:0000269)

- shape: tubular (PATO:0002299) AND unbranched (PATO:0000414)

- position: anterior region (BSPO\_0000071) AND ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): fourth leg artery

(xref: OARCS:0000135) AND

distal margin (BSPO\_0000678): ventral to (BSPO\_0000102)

suboesophageal ganglion (SPD\_0000626)

- constituents: -

- connections: emanates\_from (RO:0002377):

posterior side (BSPO\_0000056): fourth leg artery (xref: OARCS:0000135)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**sixth lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000269) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**fourth leg artery**](http://purl.obolibrary.org/obo/OARCS_0000135) **))) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**distal margin**](http://purl.obolibrary.org/obo/BSPO_0000678) **and (** [**ventral\_to**](http://purl.obolibrary.org/obo/BSPO_0000102) **some** [**subesophageal ganglion**](http://purl.obolibrary.org/obo/SPD_0000626) **))) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some (** [**posterior side**](http://purl.obolibrary.org/obo/BSPO_0000056) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**fourth leg artery**](http://purl.obolibrary.org/obo/OARCS_0000135) **))) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**sixth lateral transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000269) **))**

supraneural artery system (count: 1) (xref: OARCS:0000262)

- shape: tubular (PATO:0002299) AND

branched (PATO:0000402)

- position: anterior region (BSPO\_0000071) AND

ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): distal margin (BSPO0000678):

left (PATO\_0000366) aortic arch (xref: OARCS:0000105) AND distal to (PATO\_0001234) third leg artery

(xref: OARCS:0000136) AND

supplies (RO:0002178): suboesophageal ganglion (SPD\_0000626)

AND opisthosoma (SPD\_0000003)

- constituents: supraneural artery (xref: OARCS:0000148) AND

median transganglionic artery (xref: OARCS:0000123)

- connections: emanates\_from (RO:0002377): left (PATO\_0000366) aortic arch

(xref: OARCS:0000105)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**supraneural artery system**](http://purl.obolibrary.org/obo/OARCS_0000262) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**median transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000123) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**supraneural artery**](http://purl.obolibrary.org/obo/OARCS_0000148) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some (** [**distal margin**](http://purl.obolibrary.org/obo/BSPO_0000678) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some (** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**left**](http://purl.obolibrary.org/obo/PATO_0000366) **))))))) and (** [**distal\_to**](http://purl.obolibrary.org/obo/BSPO_0000097) **some** [**third leg artery**](http://purl.obolibrary.org/obo/OARCS_0000136) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**opisthosoma**](http://purl.obolibrary.org/obo/SPD_0000003) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**subesophageal ganglion**](http://purl.obolibrary.org/obo/SPD_0000626) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some (** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**left**](http://purl.obolibrary.org/obo/PATO_0000366) **))) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**supraneural artery system**](http://purl.obolibrary.org/obo/OARCS_0000262) **))**

supraneural artery (count: 1) (xref: OARCS:0000148)

- shape: tubular (PATO:0002299) AND unbranched (PATO:0000414)

- position: anterior region (BSPO\_0000071) AND ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): distal margin (BSPO0000678):

left (PATO\_0000366) aortic arch (xref: OARCS:0000105) AND distal to (PATO\_0001234) third leg artery

(xref: OARCS:0000136) AND

distal margin (BSPO\_0000678): posterior margin 0000672): pedicel

(SPD\_0000006) AND dorsal\_to (BSPO\_0000098)

suboesophageal ganglion (SPD\_0000626)

- constituents: -

- connections: emanates\_from (RO:0002377): left (PATO\_0000366) aortic arch

(xref: OARCS:0000105)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 1 (** [**supraneural artery**](http://purl.obolibrary.org/obo/OARCS_0000148) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some (** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**left**](http://purl.obolibrary.org/obo/PATO_0000366) **))))) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**distal margin**](http://purl.obolibrary.org/obo/BSPO_0000678) **and (** [**adjacent to**](http://purl.obolibrary.org/obo/RO_0002220) **some (** [**posterior margin**](http://purl.obolibrary.org/obo/BSPO_0000672) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**pedicel**](http://purl.obolibrary.org/obo/SPD_0000006) **))))) and (** [**distal\_to**](http://purl.obolibrary.org/obo/BSPO_0000097) **some** [**third leg artery**](http://purl.obolibrary.org/obo/OARCS_0000136) **) and (** [**dorsal\_to**](http://purl.obolibrary.org/obo/BSPO_0000098) **some** [**subesophageal ganglion**](http://purl.obolibrary.org/obo/SPD_0000626) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **))**

first median transganglionic artery (count: 1) (xref: OARCS:0000288)

- shape: tubular (PATO:0002299) AND unbranched (PATO:0000414)

- position: anterior region (BSPO\_0000071) AND ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal side (BSPO\_0000061): left (PATO\_0000366) aortic arch

(xref: OARCS:0000105)

distal margin (BSPO\_0000678): labium (SPD\_0000289)

- constituents: -

- connections: emanates\_from (RO:0002377): left (PATO\_0000366) aortic arch (xref: OARCS:0000105)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**first median transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000288) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal side**](http://purl.obolibrary.org/obo/BSPO_0000061) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some (** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**left**](http://purl.obolibrary.org/obo/PATO_0000366) **))))) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**distal margin**](http://purl.obolibrary.org/obo/BSPO_0000678) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**labium**](http://purl.obolibrary.org/obo/SPD_0000289) **))) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some (** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**left**](http://purl.obolibrary.org/obo/PATO_0000366) **))) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**first median transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000288) **))**

first median transganglionic artery system (count: 1) (xref: OARCS:0000271)

- shape: tubular (PATO:0002299) AND branched (PATO:0000402)

- position: anterior region (BSPO\_0000071) AND ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal margin (BSPO\_0000677): left (PATO\_0000366) aortic arch

(xref: OARCS:0000105) AND

supplies (RO:0002178): labium (SPD\_0000289) AND

suboesophageal ganglion (SPD\_0000626)

- constituents: first median transganglionic artery (xref: OARCS:0000288) AND

second median transganglionic artery (xref: OARCS:0000287)

- connections: emanates\_from (RO:0002377): left (PATO\_0000366) aortic arch (xref: OARCS:0000105)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**first median transganglionic artery system**](http://purl.obolibrary.org/obo/OARCS_0000271) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**second median transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000287) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some** [**first median transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000288) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal margin**](http://purl.obolibrary.org/obo/BSPO_0000677) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some (** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**left**](http://purl.obolibrary.org/obo/PATO_0000366) **))))) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**labium**](http://purl.obolibrary.org/obo/SPD_0000289) **) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**subesophageal ganglion**](http://purl.obolibrary.org/obo/SPD_0000626) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**branched**](http://purl.obolibrary.org/obo/PATO_0000402) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some (** [**aortic arch**](http://purl.obolibrary.org/obo/OARCS_0000105) **and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**left**](http://purl.obolibrary.org/obo/PATO_0000366) **))) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**first median transganglionic artery system**](http://purl.obolibrary.org/obo/OARCS_0000271) **))**

second median transganglionic artery (count: 1) (xref: OARCS:0000287)

- shape: tubular (PATO:0002299) AND unbranched (PATO:0000414)

- position: anterior region (BSPO\_0000071) AND ventral side (BSPO\_0000068)

- spatial relation: located\_in (RO\_0001025) prosoma (SPD\_0000002) AND

proximal side (BSPO\_0000061): first median transganglionic artery (xref: OARCS:0000288)

distal margin (BSPO\_0000678): ventral to (BSPO\_0000102)

suboesophageal ganglion (SPD\_0000626)

supplies (RO:0002178): suboesophageal ganglion (SPD\_0000626)

- constituents: -

- connections: emanates\_from (RO:0002377): first median transganlionic artery (xref: OARCS:0000123)

[**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **exactly 2 (** [**second median transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000287) **and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**ventral side**](http://purl.obolibrary.org/obo/BSPO_0000068) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**anterior region**](http://purl.obolibrary.org/obo/BSPO_0000071) **) and (** [**part of**](http://purl.obolibrary.org/obo/BFO_00000050) **some** [**prosoma**](http://purl.obolibrary.org/obo/SPD_0000002) **) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**proximal side**](http://purl.obolibrary.org/obo/BSPO_0000061) **and (** [**continuous with**](http://purl.obolibrary.org/obo/RO_0002150) **some** [**first median transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000288) **))) and (** [**has part**](http://purl.obolibrary.org/obo/BFO_0000051) **some (** [**distal margin**](http://purl.obolibrary.org/obo/BSPO_0000678) **and (** [**ventral\_to**](http://purl.obolibrary.org/obo/BSPO_0000102) **some** [**subesophageal ganglion**](http://purl.obolibrary.org/obo/SPD_0000626) **))) and (** [**supplies**](http://purl.obolibrary.org/obo/OBI_0000646) **some** [**subesophageal ganglion**](http://purl.obolibrary.org/obo/SPD_0000626) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**unbranched**](http://purl.obolibrary.org/obo/PATO_0000414) **) and (** [**bearer of**](http://purl.obolibrary.org/obo/RO_0000053) **some** [**tubular**](http://purl.obolibrary.org/obo/PATO_0002299) **) and (** [**emanates\_from**](http://purl.obolibrary.org/obo/RO_0002377) **some** [**first median transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000288) **) and (** [**contralateral\_to**](http://purl.obolibrary.org/obo/BSPO_0000106) **exactly 1** [**second median transganglionic artery**](http://purl.obolibrary.org/obo/OARCS_0000287) **))**