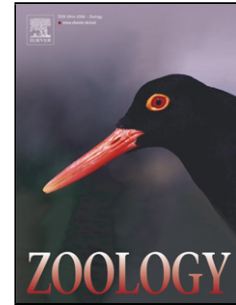


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**Gross anatomy and histology of the olfactory rosette of the shark *Heptanchias perlo***

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**Highlights**

- *Heptanchias perlo* has an olfactory organ with a roundish raphe.
- Its connective capsule probably can expand along with water influx.
- The raphe has a mechanical role and does not contain any nerve fibers and blood vessels.
- Supporting cells in the sensory epithelium have also a function in mucus secretion.
- Olfactory receptor neurons are immunoreactive to G $\alpha$ o and G $\alpha$ i3, but not to G $\alpha$ olf.

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