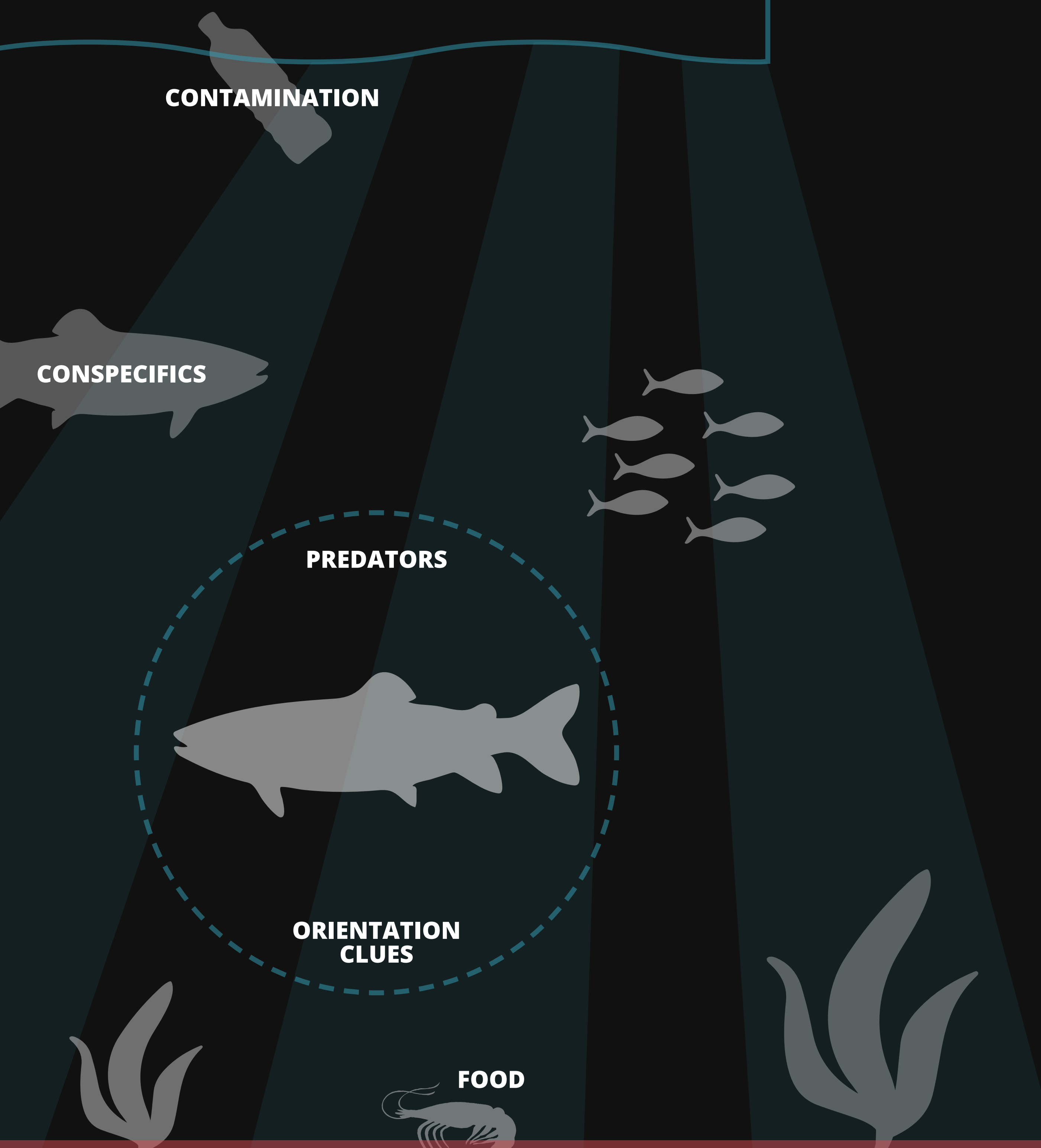


AN UPDATE ON ANATOMY AND FUNCTION OF THE TELEOST OLFACTORY SYSTEM

SENSE OF SMELL IN TELEOST FISHES

Many teleost fishes have an exquisite sense of smell, which allows them to find food, mates, to orientate and avoid predators and contamination.



THE OLFACTORY SYSTEM

As terrestrial vertebrates, teleosts have different types of chemosensory receptor neurons which are integrated in a sole paired olfactory organ. These neurons make a first synapse in the olfactory bulb. From there the information is relayed to higher processing centers in the telencephalon. In these brain regions, olfactory responses elicit prominent electrical oscillations, which are fundamental for coordinated olfactory information processing.

