

琉球大学学術リポジトリ

A behavioral study on cross-modal recognition
between visual and tactile senses of octopus

メタデータ	言語: en 出版者: 琉球大学 公開日: 2022-06-30 キーワード (Ja): キーワード (En): 作成者: 川島, 董 メールアドレス: 所属:
URL	http://hdl.handle.net/20.500.12000/0002019342

(様式第3号)

論文要旨

論文題目

A behavioral study on cross-modal recognition between visual and tactile senses of octopus

タコ類における視覚・触覚間クロスモーダル認知に関する行動学的研究

Octopuses, a member of molluscan class, possess well-developed nervous system such as lens eyes that is anatomically similar to vertebrates, and large brain. Octopuses are also characterized with their highly sensitive sensory receptors, namely, suckers on their eight arms. Due to these biological uniqueness, octopuses have been a target for psychological studies and were reported their advanced abilities for a diversity of learning and memory. All of these findings have come from experiments that tested with single sensory perception (*i.e.*, visual or tactile). On the other hand, it is known in a wide range of organisms, from mammals to insects, they can integrate multiple sensory information and exchange these information between different senses, by which they can vividly image their environments. In this study, we will shed light on an idea for multi modal perception in octopuses, which is based on my studies for visual and tactile perception in tropical octopuses inhabiting the coastal waters of the Ryukyu Archipelago.

氏名 川島 董