

## The Importance of Behavioral Studies and Bioacoustics of Aquatic Animals

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Marziyeh Aminifard <sup>1</sup>, Saeed Shafiei Sabet <sup>\*1</sup>

There are growing concerns about monitoring scientific developments, building scientific capacity, providing an introduction and overview of a new field of science for academia worldwide. The aim of this paper is to enhance promotion of science, steering undergraduate students and researchers in the field of behavioural studies, bioacoustics also cultivation of a new area of research. Although the technology to monitor acoustic changes and sound components is complex and limited, international scientific communications may play an important role and create the opportunity to overcome the limitations of this field of research in Iran. In the other hand, cognitive processes and concepts such as perception, learning, memory and decision making play an important role in mate choice, foraging and many other behaviours of aquatic animals. Here, we classify underwater sound sources and describe underwater bioacoustics. Moreover, we review some of our recent behavioural study publications in the field of research; give an overview of other relevant research contributions also compare laboratory-based studies with field-based behavioural studies. The authors suggest sound-related behavioural studies and a series of continuous monitoring of underwater acoustics in real field conditions and habitats but also acoustic measurements under laboratory conditions.

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\* Author for Correspondence, Assistant Professor, Tel: +98 13 44323599, Fax: +98 13 44322102, E-mail: [s.shafiei.sabet@guilan.ac.ir](mailto:s.shafiei.sabet@guilan.ac.ir)

<sup>1</sup> Department of Fisheries, Faculty of Natural Resources, University of Guilan, Sowmeh Sara, Iran