

ANATOMICAL STRUCTURE OF *Chelydra serpentina* (LINNAEUS, 1758) AS THE BASE OF BEHAVIOR DETERMINATION

Rajendra Regaputra
20/457586/BI/10482

ABSTRACT

The study of animal behavior has been one of the biggest branches in animal biology due to its ultimate benefit in understanding the animal's behavioral pattern and population management. This branch of animal biology is usually studied and taught as a stand-alone sector, even though there are many multi-disciplinary researches that involves the behavioral biology of animal. However, there are little to no research that involves both animal behavior and animal anatomy. Therefore, this research is intended to study the anatomical structure as the base of behavior determination in animal, using *Chelydra serpentina* or common snapping turtle as the main object. In this research, both the skeleton and living *C. serpentina* is used as the object in observing the animal's anatomy. The daily behavioral pattern of living *Chelydra serpentina* is also tracked and recorded to observe the biology of the turtle, and ultimately the data obtained from the qualitative observation is collected and interpreted to study the correlation between the two parameters. The research demonstrates that the anatomical structure of *C. serpentina* is a key determinant of its behavior, shaping its interactions with the environment and its strategies for feeding and survival. The close correlation between anatomy and behavior underscores the importance of physical adaptations in the ecological and behavioral niche of the species.

Keyword: Anatomy, Animal, Behavior, *Chelydra serpentina*, Turtle.