

## Chapter 51: Animal Behavior

- 51.1 Compare and contrast the role of environmental changes and animal communication in triggering animal behavior.
- 51.2 Use examples to illustrate the diverse forms of learning observed among animal species.
- 51.3 Discuss how foraging and reproductive behavior can evolve as responses to selection for relative fitness.
- 51.4 Explain how genetic and quantitative analyses are used in exploring and modeling selection for particular behaviors.

This chapter may be one of your favorites, as it will cause you to consider behaviors you have noticed and lead you to question how the behavior could affect natural selection. Behaviors of an individual serve to increase its fitness in the population and are vital to reproduction and survival. Throughout this course, you have seen numerous examples of communication beginning with a signal which leads to a response. In this chapter you see that this occurs not only at the cellular level, but also at the level of the organism and population. There are myriad environmental cues that elicit responses.

**Study Tip:** Throughout this chapter, watch for how each of the four questions presented in Figure 51.1 in your text are used to analyze *how* behaviors occur and *why* they arise. List the four questions in the space below as you read the examples utilizing the magnificent frigatebird. Can you think of behaviors you have observed and how those behaviors fit into these four questions?

**Concept 51.1** Discrete sensory inputs can stimulate both simple and complex behaviors

**LO 51.1:** Compare and contrast the role of environmental changes and animal communication in triggering animal behavior.

1. How is behavior defined? Why are behaviors subject to natural selection?  
~~behavior comes about by~~ ~~the~~ ~~environmental~~ ~~changes~~ ~~and~~ ~~animal~~ ~~communication~~
2. Nicholas Tinbergen was a pioneer in the study of animal behavior. He framed the four questions presented in the opening figure. His work with the stickleback fish is a classic study. Explain what he found, using the terms *fixed action pattern* and *sign stimulus* in your response.  
~~In a male stickleback, when the red ventral area of another male is a sign stimulus that may trigger a fixed action pattern of aggressive behavior of an animal.~~

# Chapter 51 Animal Behavior Reading Guide Answers

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**Canine Behavior** Bonnie V. G. Beaver,2009-01-01 Bonnie V Beaver provides a clear understanding of normal dog behaviors and the necessary tools to identify problem behaviors and their origins Canine Behavior shows how to prevent eradicate or minimize unacceptable behaviors and build successful lifelong relationships with one s dogs **Readers'**

**Guide to Periodical Literature** Anna Lorraine Guthrie,Bertha Tannehill,Neltje Marie Tannehill Shimer,1919

Introduction to Animal Science Wilson G. Pond,Kevin R. Pond,2000-02-11 Pond is for the mainstream introduction to animal science taught in every university that has a school of agriculture or animal science department The result of years of teaching the book provides students with a comprehensive and balanced overview of animal agriculture in contemporary society taking into account the needs of students with highly varied cultural backgrounds and educational objectives

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**Guide to Accompany Biology, the Science of Life, Third Edition** W. J. Leverich,1991 Study Guide to Accompany Abnormal Psychology and Modern Life, Tenth Edition Don C. Fowles,1996 Student Study Guide to Accompany Biology and Human Concerns, by E. Peter Volpe Peter A. Rosenbaum,1993 **Book Review Digest** ,1928 Junior High School Library Catalog ,1975 **Medical Record** George Frederick Shrady,Thomas Lathrop Stedman,1911 **Index Medicus**

,1918 **Epigenomic Polymorphisms: the Drivers of Diversity and Heterogeneity** Sajad Ahmad Dar,Tanvir Ul Hassan Dar,Naseem Akhter,2022-11-18 The authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest Index Medicus. Second Series ,1918

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