

***Learning the Skills of Research:  
Animal Behavior Exercises in the  
Laboratory and Field***

**STUDENT MANUAL**  
*[Sample Lab Exercise]*

Elizabeth M. Jakob and Margaret Hodge, Editors

Dr. Elizabeth M. Jakob  
Department of Psychology  
Tobin Hall  
University of Massachusetts  
Amherst, Massachusetts 01003  
[ejakob@psych.umass.edu](mailto:ejakob@psych.umass.edu)

Dr. Margaret Hodge  
The Louisiana School for Math, Science and the Arts  
715 University Parkway  
Natchitoches, LA 71457  
[mhodge@lsmsa.edu](mailto:mhodge@lsmsa.edu)

# Animal Behavior Laboratory Manual

**Aute Richards**

## **Animal Behavior Laboratory Manual:**

Field and Laboratory Exercises in Animal Behavior Chadwick V. Tillberg, Michael D. Breed, Sarah J. Hinnens, 2007-09-04

Field and Laboratory Exercises in Animal Behavior is an interactive laboratory manual for students in animal behavior ethology and behavioral ecology. It is the first of its kind in this subject area that guides students through the diverse and fascinating fields of behavioral and ethological studies employing a wide array of organisms as model systems for the study of behavior. Students participate in the development of hypothesis and turn the recording, analysis, and interpretation of data into an active and engaging process. A teacher friendly companion website provides extensive teaching notes on the background to each lab project, tips and hints for successful project presentation, sources for studying organisms, ideas for variations in labs, and alternate study organisms. This text is recommended for undergraduate courses in Animal Behavior, Ethology, and Behavioral Ecology. Provides fully developed and tested laboratory exercises. Offers both field and lab experiences adaptable for fall, spring, or summer courses. Laboratories emphasize student thought and involvement in experimental design. Includes an online supplement to the manual for teachers. Animal Behavior Laboratory Manual, Sixth Edition - BIO 3900

Academx Publishing Services, Incorporated, 2023-08-03

## **Exploring Animal Behavior in Laboratory and Field**

Heather Zimbler-DeLorenzo, Susan W. Margulis, 2021-07-19. Exploring Animal Behavior in Laboratory and Field, Second Edition

provides a comprehensive manual on animal behavior lab activities. This new edition brings together basic research and methods, presenting applications and problem-solving techniques. It provides all the details to successfully run designed activities while also offering flexibility and ease in setup. The exercises in this volume address animal behavior at all levels, describing behavior theory, application, and communication. Each lab provides details on how to successfully run the activity while also offering flexibility to instructors. This is an important resource for students, educators, researchers, and practitioners who want to explore and study animal behavior. The field of animal behavior has changed dramatically in the past 15-20 years, including a greater use and availability of technology and statistical analysis. In addition, animal behavior has taken on a more applied role in the last decade with a greater emphasis on conservation and applied behavior, hence the necessity for new resources on the topic. Offers an up-to-date representation of animal behavior. Examines ethics and approvals for the study of vertebrate animals. Includes contributions from a large field of expertise in the Animal Behavior Society. Provides a flexible resource that can be used as a laboratory manual or in a flipped classroom setting.

## **Field and Laboratory Exercises in Animal Behavior**

Chadwick V. Tillberg, Michael D. Breed, Sarah J. Hinnens, 2007-09-18. Field and Laboratory Exercises in Animal Behavior is an interactive laboratory manual for students in animal behavior, ethology, and behavioral ecology. It is the first of its kind in this subject area that guides students through the diverse and fascinating fields of behavioral and ethological studies employing a wide array of organisms as model systems for the study of behavior. Students participate in the development of hypothesis and turn the recording, analysis, and interpretation of data into an active and engaging process.

A teacher friendly companion website provides extensive teaching notes on the background to each lab project tips and hints for successful project presentation sources for studying organisms ideas for variations in labs and alternate study organisms This text is recommended for undergraduate courses in Animal Behavior Ethology and Behavioral Ecology     *Analyses in Behavioral Ecology* Luther Brown,Jerry F. Downhower,1988     [Animal Behavior / Field and Laboratory Exercises in Animal Behavior \(SET\)](#) Michael D. Breed,Chadwick V Tillberg,2011-03-28 Animal Behavior Field and Laboratory Exercises in Animal Behavior SET provides a solid background in the neurophysiological and endocrinological bases of animal behavior This specially priced set includes a copy of Breed and Moore Animal Behavior and Tillberg Breed Hinnens Field and Laboratory Exercises in Animal Behavior The textbook covers the broad sweep of animal behavior from its neurological underpinnings to the importance of behavior in conservation Chapters cover behavior and homeostatic mechanisms behavior and conservation and behavioral aspects of disease An entire chapter is devoted to the vibrant new field of behavior and conservation including topics such as social behavior and the relationship between parasites pathogens and behavior Thoughtful coverage is also given to foraging behavior mating and parenting behavior anti predator behavior and learning Each chapter begins with learning objectives and concludes with thought provoking questions Furthermore special terms and definitions are highlighted throughout The laboratory manual guides students through the diverse and fascinating fields of behavioral and ethological studies employing a wide array of organisms as model systems for the study of behavior Students participate in the development of hypothesis and turn the recording analysis and interpretation of data into an active and engaging process There is also a companion site for faculty and students to enhance their learning experience at [www.elsevierdirect.com/companions/9780123725813](http://www.elsevierdirect.com/companions/9780123725813) This book will appeal to advanced graduate and undergraduate students in animal behaviour ethology and behavioral ecology courses     **Animal Behavior** Michael D. Breed,Janice Moore,2011-01-04 Animal Behavior covers the broad sweep of animal behavior from its neurological underpinnings to the importance of behavior in conservation The authors Michael D Breed and Janice Moore bring almost 60 years of combined experience as university professors to this textbook much of that teaching animal behavior An entire chapter is devoted to the vibrant new field of behavior and conservation including topics such as social behavior and the relationship between parasites pathogens and behavior Thoughtful coverage has also been given to foraging behavior mating and parenting behavior anti predator behavior and learning This text addresses the physiological foundations of behavior in a way that is both accessible and inviting Each chapter begins with learning objectives and concludes with thought provoking questions Additionally special terms and definitions are highlighted throughout The book provides a rich resource for students and professors from a wide range of life science disciplines Provides a solid background in the neurophysiological and endocrinological bases of animal behavior as well as exceptionally strong coverage of social behavior Includes behavior and homeostatic mechanisms behavior and conservation and behavioral aspects of disease Highlights aspects of behavior that relate to domestic animals in particular

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**Invertebrate Learning** Charles I. Abramson, 2009 Invertebrate Learning A Laboratory Manual and Source Book is designed primarily for use in the laboratory portion of a course on animal behavior. It is useful for instructors in colleges, universities and high schools who wish to supplement or create course work in animal behavior but cannot do so because of budget and space limitations. Instructors of high school biology and students interested in science fairs and independent projects will also find this manual useful as a source and idea book. It is assumed that students using this manual are already familiar with the basic principles of the psychology of animal learning and behaviour. Some familiarity with invertebrate zoology and physiology although not essential will add to the enjoyment and understanding of the exercises. PsycINFO Database Record c 2004 APA all rights reserved    **A Laboratory Guide in General Zoology** Aute Richards, 1925    **The**

**Journal of Animal Behavior** Robert Mearns Yerkes, 1911    **Field and laboratory guide** Lewis Sylvester Daugherty, Millie Crum Daugherty ("Mrs. L. S. Daugherty, "), 1912    *Research Grants Index* National Institutes of Health (U.S.). Division of Research Grants, 1968    *Bibliography of Agriculture with Subject Index*, 1975-12    **An Index to Undergraduate Science** National Science Foundation (U.S.). Office of Experimental Projects and Programs, 1974

**College Science Improvement Programs; COSIP A & B Report** National Science Foundation (U.S.). Office of Experimental Programs, 1974    A Guide for Laboratory and Field Work in Zoology Henry Richardson Linville, Henry Augustus Kelly, 1906    *Exploring Animal Behavior in Laboratory and Field* Bonnie J. Ploger, Ken Yasukawa, 2002-11-13 Exploring Animal Behavior in Laboratory and Field is designed to provide a variety of exercises that engage students actively in all phases of scientific investigation from formulating research questions through interpreting and presenting final results. It attempts to share the collective teaching expertise and experience of members of the Animal Behavior Society with all who are willing to benefit from their wisdom. Four types of exercises are presented: 1 traditional exercises in which students follow a pre determined protocol to test particular hypotheses explicitly stated in the exercise; 2 traditional exercises that can easily be adapted to inquiry based approaches; 3 combined pedagogy exercises that involve both traditional and inquiry approaches; and 4 inquiry exercises in which students first brainstorm to generate their own hypotheses then design their own experiments to test their hypotheses. Supports a range of pedagogical styles and texts in animal behavior with active learning experiences that engage students. Students and instructors benefit from knowledge and experience of members of the Animal Behavior Society. Flexibility of design enables students and instructors to tailor the exercises to their needs. Can be used to support lab courses that are completely inquiry based as well as independent student research projects in animal

behavior Consideration of animal care guidelines provides an excellent way to address and discuss concerns about the use of animals in teaching and research Emphasizes the hypothetico deductive approach that students have difficulty understanding and implementing Supporting materials make additional required texts unnecessary and link study design considerations with real studies *Encyclopedia of Animal Behavior: D-P Marc Bekoff, 2004* Entries examine a broad array of different species and behavior patterns using techniques that range from molecular approaches to the study of behavior to analyses of individuals populations species and ecosystems

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