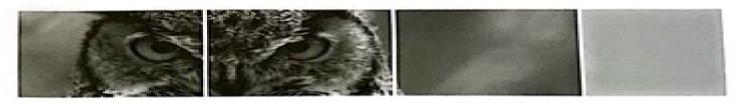
# EXERCISE 10



#### **Animal Diversity Lab**

#### Part 1. Animal Diets

#### Background

Owls are raptors. Raptors are strictly meat eaters. They eat the whole animal (fur, bones, and flesh) to receive the nutrients they need. All raptors except owls can digest almost anything except the fur. Owls cannot digest the fur, teeth, and bones. Unlike other birds, owls have no crop. A crop is a loose sac in the throat that serves as storage for food for later consumption. The owl's stomach has two parts. The first part begins the process of digestion. The second part is the muscular stomach, or gizzard. There are no digestive glands in the gizzard. It holds back insoluble items such as bones, fur, teeth, and feathers. Several hours after eating, these items are compressed into a pellet that is the shape of the gizzard. It travels up to the first part of the stomach, and it may remain there up to 20 hours before being regargitated. No other prey can be swallowed until the pellet is expelled. Regargitation often signifies that an owl is ready to eat again.

By studying the bones found in owl pellets, scientists can find out about the diet of owls and the distribution of prey animals found in the area. Other ways scientists can study animals diets are by examining animal feces or "scat" or by dissecting the stomachs of dead animals to identify the contents of their last meal.

#### LABORATORY OBJECTIVES:

- 1. Separate the fur, bones, and teeth found in an owl pellet.
- Clean and categorize the bones. Attempt to determine the number of mice and rats by pairing right and left lower jaw bones with the skull. Share information with the class to formulate ideas about the diets represented by these pellets.

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available If this can stimulate the readers to use other methods that those they are routinely using the goals will be met Laboratory Animal Welfare Kathryn Bayne, Patricia V. Turner, 2013-09-02 Laboratory Animal Welfare provides a comprehensive up to date look into the new science of animal welfare within laboratory research Animals specifically considered include rodents cats and dogs nonhuman primates agricultural animals avian animals and aquatic animals The book examines the impact of experiment design and environment on animal welfare as well as emergency situations and euthanasia practices Readers will benefit from a review of regulations and policy guidelines concerning lab animal use as well as information on assessing animal welfare With discussions of the history and ethics of animals in research and a debate on contemporary and international issues this book is a go to resource for laboratory animal welfare Textbooks in Print .1984 Laboratory Animal Medicine Lynn C. Anderson, Franklin M. Loew, Fred W. Quimby, 2002-06-20 A volume in the American College of Laboratory Animal Medicine series this second edition has over 40% new material including the addition of six new topics and many others that are completely rewritten The book comprehensively covers the biological and disease aspects of laboratory animal medicine while examining other aspects such as the biohazards associated with the use of animal experimentation and factors complicating the bioethics of animal Exotic Animal Laboratory Diagnosis J. Jill Heatley, Karen E. Russell, 2020-03-24 Exotic Animal Laboratory research Diagnosis ist ein praxisorientiertes leserfreundliches Fachbuch mit allem Wissenswerten fr die Durchf hrung diagnostischer Tests bei vielen Exoten Erl utert detailliert wie Proben entnommen Tests durchgef hrt und Laborergebnisse interpretiert werden Bietet Informationen zu jeder Tierart die zum schnellen Nachschlagen einheitlich pr sentiert werden Legt den Schwerpunkt auf klinische biochemische Untersuchungen Urinanalysen und g ngige Diagnoseverfahren die in anderen Publikationen nicht zu finden sind F hrt in einem leicht zug nglichen Fachbuch alles Wissenswerte zu Auswahl Durchf hrung und Anwendung von Testverfahren zusammen Deckt eine Vielzahl von Tierarten ab u a Kleins ugetiere Primaten Reptilien Wassertiere Wildtiere Laborversuchstiere und Hausv gel Animal Diversity University of the West Indies (Saint Augustine, Trinidad and Tobago). Department of Life Sciences,2001 **Gnotobiotics** Trenton R Schoeb, Kathryn A Eaton, 2017-08-11 Gnotobiotics summarizes and analyzes the research conducted on the use of gnotobiotes providing detailed information regarding actual facility operation and derivation of gnotobiotic animals In response to the development of new tools for microbiota and microbiome analysis the increasing recognition of the various roles of microbiota in health and disease and the consequent expanding demand for gnotobiotic animals for microbiota microbiome related research this volume collates the research of this expanding field into one definitive resource Reviews and defines gnotobiotic animal species Analyzes microbiota in numerous contexts Presents detailed coverage of the protocols and operation of a gnotobiotic facility Paperbound Books in Print ,1991 A Manual of Practical Hygiene Edmund Alexander Parkes, 1891 Manual of practical hygiene v. 2 Edmund Alexander Parkes, 1883 An Introduction to Molecular Ecology Graham

Rowe, Michael Sweet, Trevor John Clark Beebee, 2017 Revised edition of Introduction to molecular ecology Trevor J C Beebee Graham Rowe 2008 2nd ed Instructor's Manual for the Laboratory Manual for Starr and Taggart's Biology: The Unity and Diversity of Life and Starr's Biology Concepts and Applications James W. [et. al]. Perrry, 2002 New Developments in Biosciences: Their Implications for Laboratory Animal Science Anton Beynen, H.A. Solleveld, 1987-12-31 Proceedings of the Third Symposium of the Federation of European Laboratory Animal Science Associations held in Amsterdam The Netherlands The Wildlife Techniques Manual Nova J. Silvy, 2020-07-28 The 1 selling wildlife management book for 40 years now updated for the next generation of professionals and students Since its original publication in 1960 The Wildlife Techniques Manual has remained the cornerstone text for the professional wildlife biologist Now fully revised and updated this eighth edition promises to be the most comprehensive resource on wildlife biology conservation and management for years to come Superbly edited by Nova J Silvy and published in association with The Wildlife Society the 50 authoritative chapters included in this work provide a full synthesis of methods used in the field and laboratory Chapter authors all leading wildlife professionals explain and critique traditional and new methodologies and offer thorough discussions of a wide range of relevant topics To effectively incorporate the explosion of new information in the wildlife profession this latest edition is logically organized into a 2 volume set Volume 1 is devoted to research techniques and Volume 2 focuses on pragmatic management methodologies Volume 1 describes research design and proper analytic methods prior to conducting research as well as methods and considerations for capturing and handling wild animals and information on identification and marking of captured animals It also includes new chapters on nutritional research and field sign identification and on emerging topics including structured decision making Finally Volume 1 addresses measurements of wildlife abundance and habitat and research on individual animals Volume 2 begins with a section on the relationship between research and management including public outreach described in a context that encourages engagement prior to initiation of management An adaptive management approach is described as a cornerstone of natural resource management followed by a section on managing landscapes and wildlife populations The volume also includes new chapters on ethics in wildlife science and conservation conflict resolution and management and land reclamation A standard text in a variety of courses the Techniques Manual as it is commonly called covers every aspect of modern wildlife management and provides practical information for applying the hundreds of methods described in its pages This deft and thorough update ensures that The Wildlife Techniques Manual will remain an indispensable resource one that professionals and students in wildlife biology conservation and management simply cannot do without

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