

Vertebrate Zoology

Class Mammalia: Pig Dissection and Mammal Display

I. Preliminary Work:

- A. Observe mammal display material.
- B. Observe slides of human dissection/anatomy.

II. Lab Work: Chapter 22

- A. Study the external anatomy of a preserved fetal pig – see pp.119-120 (331-332). Know: mouth, nostrils, vibrissae, thorax, abdomen, sacral region, umbilical cord, mammae, external reproductive organs/structures, and anus. Note the thin external cuticle called the periderm.
- B. Salivary glands - see pp. 132-133 (344-345) and Fig. 22-11 in lab book - omit paragraph on sublingual glands. (Dissect salivary glands right after observing external features.) Know: masseter, mandible, submaxillary gland, and parotid gland.
- C. Mouth cavity and pharynx - see pp. 132-134 (344-346) and Figs. 22-12 and 22-13; omit specific names of papillae of tongue. Know: nasopharynx, laryngeal pharynx, esophagus, tongue, epiglottis, glottis, soft palate, and hard palate. Eustacean tubes are difficult to see. In the throat/neck area, know larynx, trachea, thymus, and thyroid gland.
- D. Preliminary dissection - see cutting diagram –Fig. 22-15, p. 136 (348).
- E. Abdominal cavity - see pp. 134-136 (346-348). Know all labelled structures on Fig. 22-14.
- F. Thoracic cavity and neck region - see pp. 136-137 (348-349) and Fig. 22-16 in lab book. Know all labeled structures on Fig. 22-16.
- G. Digestive tract - see pp. 137-138 (349-350). Know all terms printed in dark ink on these pages.

NOTE: Do not start dissection of urogenital system until teacher demonstrates the proper way to remove the testis in the male and how to cut the pubic bone to get to the female parts. Also, regardless of the gender of your pig, you are responsible for knowing the parts/structures/organs of both male and female pigs.

- H. Urinary system - see pp. 138-139 (350-351) and Fig. 22-17 in lab book. Know all labels on Fig. 22-17 except spermatic vein and artery. Also see kidney model on display.
- I. Male reproductive system - see pp. 139-140 (351-352) and Fig. 22-17 in lab book. Know labels mentioned above.



Vertebrate Zoology Lab Manual

Byron J Adams, John L Crawley



Vertebrate Zoology Lab Manual:

A Manual of Practical Zoology □ **Chordates** P.S.Verma,2000-10 For Zoology Degree Level Students A few chapters e g microscope and chromatography have been included afresh Besides these a few dissections several museum specimens and permanenet slides have also been added at appropriate places

A Manual of Practical Zoology: INVERTEBRATES PS Verma,2010-12 The book provides discussion on all aspects of Invertebrates as covered in Practical Zoology Beginning with general techniques of preparation of cultures of Protozoa microscopic slides and laboratory regents it also covers in tabular and detailed form recent classification of various invertebrate phyla with examples of each order or suborder Wide coverage of each phylum and diagrams of major and minor dissections make the book equally useful for both undergraduate and postgraduate students

Exploring Zoology: A Laboratory Guide, Third Edition David G. Smith,Michael P. Schenk,2021-01-01 Exploring Zoology A Laboratory Guide provides a comprehensive hands on introduction to the field of zoology Knowledge of the principal groups of animals is fundamental to understanding the central issues in biology This full color lab manual provides a diverse selection of exercises covering the anatomy physiology behavior and ecology of the major invertebrate and vertebrate lineages Great care has been taken to provide information in an engaging student friendly way The material has been written to be easily adapted for use with any introductory zoology textbook

Vertebrate Zoology Laboratory Manual Ricks College. Biology Department,1981* Laboratory Manual for Vertebrate Zoology Eugene Pleasants Odum,Herbert Eugene Brown,1947

A Laboratory Manual for Comparative Vertebrate Anatomy Libbie Henrietta Hyman,1922 Laboratory Manual of Vertebrate Zoology S. N. Prasad,1969 The Dissection of Vertebrates

Gerardo De Iuliis,Dino Pulerà,2006-08-03 The Dissection of Vertebrates covers several vertebrates commonly used in providing a transitional sequence in morphology With illustrations on seven vertebrates lamprey shark perch mudpuppy frog cat pigeon this is the first book of its kind to include high quality digitally rendered illustrations This book received the Award of Excellence in an Illustrated Medical Book from the Association of Medical Illustrators It is organized by individual organism to facilitate classroom presentation This illustrated full color primary dissection manual is ideal for use by students or practitioners working with vertebrate anatomy This book is also recommended for researchers in vertebrate and functional morphology and comparative anatomy The result of this exceptional work offers the most comprehensive treatment than has ever before been available Received the Award of Excellence in an Illustrated Medical Book from the Association of Medical Illustrators Expertly rendered award winning illustrations accompany the detailed clear dissection direction Organized by individual organism to facilitate classroom presentation Offers coverage of a wide range of vertebrates Full color strong pedagogical aids in a convenient lay flat presentation

Invertebrate Zoology Robert L. Wallace,Walter Kingsley Taylor,2002 Featuring a learner centered approach that has students investigating how the animals actually work this comprehensive invertebrate zoology lab manual which is not a text lab manual hybrid provides a

conceptual framework for advanced work in behavior ecology physiology and related subjects It uses the phylum by phylum approach For laboratory courses in Invertebrate Zoology Featuring a learner centered approach that has students investigating how the animals actually work this comprehensive invertebrate zoology lab manual not a text lab manual hybrid provides a solid conceptual framework for advanced work in behavior ecology physiology and related subjects Using the popular phylum by phylum approach it features 25 exercises for studying the structure and function of invertebrates requiring students to make observations conduct investigations and ask and answer questions **Vertebrate Biology**

Donald W. Linzey,2012-02-13 Arranged logically to follow the typical course format Vertebrate Biology leaves students with a full understanding of the unique structure function and living patterns of the subphylum that includes our own species

VanDeGraaff's Photographic Atlas for the Zoology Laboratory, 8e Byron J Adams,John L Crawley,2018-02-01 This full color photographic atlas provides clear photographs and drawings of tissues and organisms similar to specimens seen in a zoology laboratory It is designed to accompany any zoology text or laboratory manual and delivers a balanced visual representation of the major groups of zoological organisms A Laboratory Manual for General Vertebrate Zoology William Madison Lewis,Willard D. Klimstra,Harvey I. Fisher,1963 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1978

Annual Catalogue of Ripon College for the Academic Year ... Ripon College,1917

A Laboratory Manual for General Vertebrate Zoology Robert Richard Lechleitner,1967 **Catalogue of the Officers, Alumni and Students of the University of Mississippi, at Oxford, Mississippi** University of Mississippi,1903

H, Natural science. H*, Medicine and surgery. I, Arts and trades. 1926 William Swan Sonnenschein,1926 *Practical Zoology Vertebrate* S. S. Lal,2009 1 Introduction to Phylum Chordata 2 Study of Museum Specimens 3 Wonder Vertebrate Animals 4 Preparation of Fixatives Stains and Other Reagents 5 General Method of Microscopic Preparations 6 Microtomy 7 Preparations of Permanent Stained Slides Mountings 8 Study of Histological Slides 9 Study of Embryological Slides 10 Comparative Osteology Study of Bones 11 Dissections Major and Minor 12 Experimental Biochemistry and Physiology 13 Some Important Histochemical Tests 14 Experimental Cytology 15 Study of Drosophila and Human Chromosomes 16 Experimental Ecology 17 Experimental Endocrinology 18 Practicals on Evolution and Animal Behaviour 19 Viva Voce

Catalogue of Ripon College Ripon College,1916 **Catalogue** Baylor University,1911

Whispering the Strategies of Language: An Mental Journey through **Vertebrate Zoology Lab Manual**

In a digitally-driven earth where monitors reign great and immediate connection drowns out the subtleties of language, the profound techniques and psychological nuances hidden within phrases usually get unheard. However, nestled within the pages of **Vertebrate Zoology Lab Manual** a charming fictional treasure pulsing with organic thoughts, lies an exceptional journey waiting to be undertaken. Composed by a talented wordsmith, that enchanting opus encourages readers on an introspective trip, softly unraveling the veiled truths and profound affect resonating within the material of every word. Within the mental depths with this moving review, we shall embark upon a sincere exploration of the book is core styles, dissect its charming writing style, and yield to the effective resonance it evokes strong within the recesses of readers hearts.

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