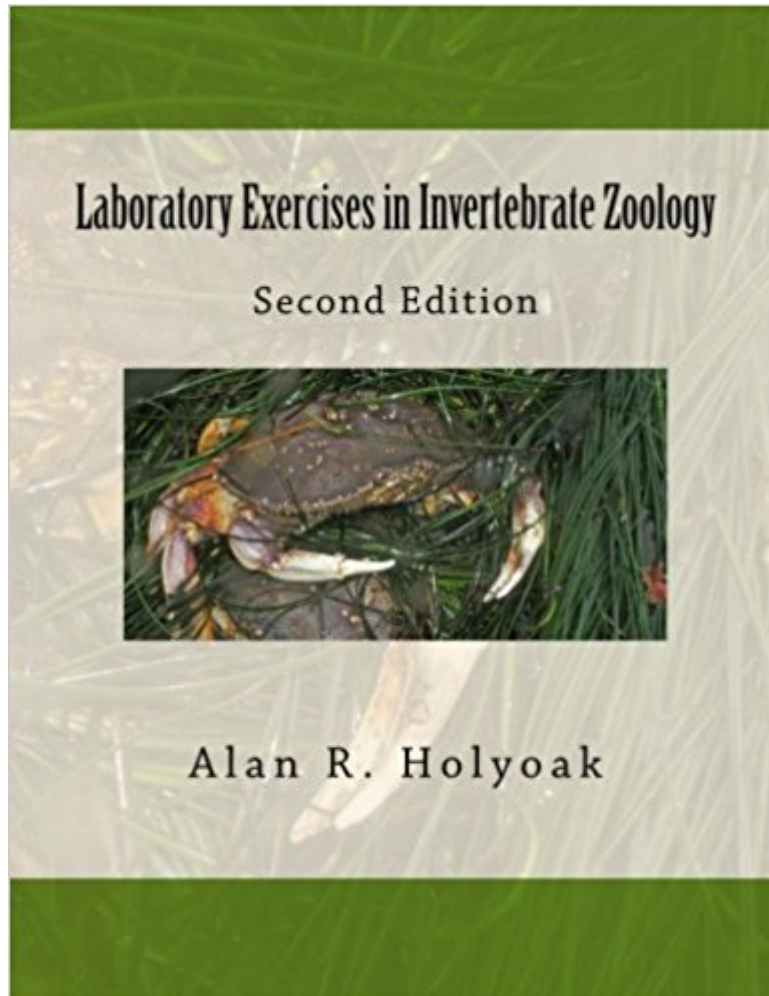




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# Laboratory Exercises In Invertebrate Zoology



## Synopsis

This is the 2nd edition of this set of laboratory exercises. It includes significant changes and improvements over the 1st edition - see below. Review copies: Course instructors may send a request to the following address to gain access to an electronic version of this lab manual for review purposes (holyoaka@byui.edu). Please indicate your school and the course(s) you teach in your email. The 2nd edition includes the following changes: 86 pages of new material (216 pp. total). 71 new figures (169 figures total) 46 links to supplemental video material A glossary of terms at the end of each chapter, and more This laboratory manual is designed to support a one-semester course in invertebrate zoology. I began developing these exercises several years ago for my own course as I watched the cost of textbooks and laboratory support materials spiral out of control. For example, the most recent edition of the only invertebrate zoology laboratory manual published by a textbook company was released in 2002 and now costs over \$110/copy. This is just too expensive for any laboratory manual, especially one this far out of date. Since the publication of the 1st edition in 2013 I have continued to assess and improve these exercises by using feedback from students in my invertebrate zoology courses as well as from faculty elsewhere who adopted these exercises for their own courses. Their feedback together with taxonomic changes and the need to correct various mistakes and typos in the 1st edition motivated me to produce the 2nd edition of this lab manual. A Kindle companion copy is available for \$0.99 with the purchase of a hard copy of this laboratory manual.

List of the contents/exercises in the lab manual

- Introduction to Microscopy - compound and dissection microscopes plus procedures for making wet-mount slides and generating scale bars for drawings
- Phylogenetic Analysis - introduction to cladistics, basics of interpreting and building cladograms
- Domain Eukarya - GROUP Amoebozoa (Amoeba, Pelomyxa, Entamoeba); GROUP Chromalveolata (Dinoflagellata - Ceratium; Apicomplexa - Eimeria, Plasmodium; Ciliata/Ciliophora - Balantidium, Didinium, Paramecium, Spirostomum, Stentor, Vorticella); GROUP Rhizaria (Foraminifera, Radiolaria); GROUP Parabasalida (Pentastomatids, Giardia, Euglena, Trypanosoma); GROUP Opisthokonta (choanoflagellata)
- Phylum Porifera - Euplectella, Leucosolenia, Scypha/Grantia, bath sponges, Spongilla
- Phylum Cnidaria - Metridium, corals, Aurelia, Physalia, Hydra, Obelia
- Phylum Ctenophora - Pleurobrachia
- Phylum Platyhelminthes - Tricladida (Dugesia); Monogenea; Trematoda (Clonorchis); Cestoda (Taenia)
- Phylum Mollusca - Polyplacophora (Cryptochiton), Gastropoda (Helix), Cephalopoda (Loligo), Bivalvia (Unio)
- Phylum Annelida - Sipuncula (Sipunculus), Errantia/Nereididae (Nereis), Sedentaria/Clitellata (Lumbricus, Hirudo)
- Phylum Brachiopoda - Craniiformea (Lingula), Rhynchonelliformea (Terebratalia/Terebratulina)
- Phylum Nematoda - Tubatrix, Ascaris, Trichinella, Wuchereria,

Enterobius, Dracunculus, Dirofilaria Phylum Tardigrada Phylum Onychophora - Peripatus Phylum Arthropoda - Trilobitomorpha; Pycnogonida (Nymphon), Euchelicerata (Limulus), Arachnida (tick, scorpion, spider); Myriapoda (Chilopoda - Scolopendra; Diplopoda - Spirobolus); Crustacea (Daphnia, Cambarus, Callinectes); Hexapoda (Romalea, insect diversity) Phylum Echinodermata - Asteroidea (Asterias); Ophiuroidea; Echinoidea (Strongylocentrotus, Dendraster); Holothuroidea (Cucumaria); echinoderm development Phylum Hemichordata - Enteropneusta (Balanoglossus) Phylum Chordata - Cephalochordata (Branchiostoma); Urochordata (Molgula, Ecteinascidia) Supplemental material - guidelines for developing a laboratory notebook

## Book Information

Paperback: 216 pages

Publisher: CreateSpace Independent Publishing Platform; 2 edition (October 12, 2016)

Language: English

ISBN-10: 1539392406

ISBN-13: 978-1539392408

Product Dimensions: 8.5 x 0.5 x 11 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: 3.0 out of 5 stars 1 customer review

Best Sellers Rank: #394,892 in Books (See Top 100 in Books) #41 in Books > Science & Math > Biological Sciences > Zoology > Invertebrates

## Customer Reviews

Alan Holyoak earned a PhD in Biology at the University of California, Santa Cruz where he was a student of Todd Newberry and focused on the biology and ecology of marine invertebrate animals. He has taught invertebrate zoology for many years, first at Manchester University (Indiana, 1992-2002) and currently at Brigham Young University-Idaho (2002-present). In addition he has taught field courses or carried out research at the Friday Harbor Laboratories of the University of Washington, The University of Hawaii, Joseph M. Long Marine Laboratory of UC Santa Cruz, Hopkins Marine Station of Stanford University and The Oregon Institute of Marine Biology of the University of Oregon.

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