

# Lab Manual: Chpt 13, 14

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## Chapter 13: Arthropods

### Objectives

1. List the distinguishing characteristics of the phylum Arthropoda.
2. Distinguish between the seven major classes of arthropods covered in this chapter.
3. Understand the evolutionary position of arthropods on the phylogeny of major animal phyla.
4. Discuss the evolutionary implications of jointed appendages and the ability to fly.
5. Identify the anatomy of a crayfish and be able to discuss the functions of each structure.
6. Identify the anatomy of a grasshopper and be able to discuss the functions of each structure.
7. Examine and compare the anatomy of different species of arthropods.
  - The phylum Arthropoda is by far the largest in the animal kingdom, containing approximately 1.1 million named species and an estimated 10–30 million

# Chpt 4 Lab Manual

**Nick Lamanna**



## **Chpt 4 Lab Manual:**

*The AGT Cytogenetics Laboratory Manual* Marilyn S. Arsham, Margaret J. Barch, Helen J. Lawce, 2017-03-03 Cytogenetics is the study of chromosome morphology structure pathology function and behavior The field has evolved to embrace molecular cytogenetic changes now termed cytogenomics Cytogeneticists utilize an assortment of procedures to investigate the full complement of chromosomes and or a targeted region within a specific chromosome in metaphase or interphase Tools include routine analysis of G banded chromosomes specialized stains that address specific chromosomal structures and molecular probes such as fluorescence in situ hybridization FISH and chromosome microarray analysis which employ a variety of methods to highlight a region as small as a single specific genetic sequence under investigation The AGT Cytogenetics Laboratory Manual Fourth Edition offers a comprehensive description of the diagnostic tests offered by the clinical laboratory and explains the science behind them One of the most valuable assets is its rich compilation of laboratory tested protocols currently being used in leading laboratories along with practical advice for nearly every area of interest to cytogeneticists In addition to covering essential topics that have been the backbone of cytogenetics for over 60 years such as the basic components of a cell use of a microscope human tissue processing for cytogenetic analysis prenatal constitutional and neoplastic laboratory safety and the mechanisms behind chromosome rearrangement and aneuploidy this edition introduces new and expanded chapters by experts in the field Some of these new topics include a unique collection of chromosome heteromorphisms clinical examples of genomic imprinting an example driven overview of chromosomal microarray mathematics specifically geared for the cytogeneticist usage of ISCN s cytogenetic language to describe chromosome changes tips for laboratory management examples of laboratory information systems a collection of internet and library resources and a special chapter on animal chromosomes for the research and zoo cytogeneticist The range of topics is thus broad yet comprehensive offering the student a resource that teaches the procedures performed in the cytogenetics laboratory environment and the laboratory professional with a peer reviewed reference that explores the basis of each of these procedures This makes it a useful resource for researchers clinicians and lab professionals as well as students in a university or medical school setting

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