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Rat Dissection Lab

PreAP Biology

Material and diagrams taken and adapted from "An Illustrated Dissection Guide to the Rat" by Allen Kurta, "Rat Dissection Manual" by Bruce D. Wingerd, "Photo Manual and Dissection Guide of the Rat" by Fred Bohensky, and www.biologycorner.com "Rat Dissection"

I. INTRODUCTION

Background:

The Norway rat, *Rattus norvegicus*, belongs to the family Muridae, a large group of rodents that includes the house mouse, gerbil, and hamster. The rat is believed to have originated in Asia and migrated to Europe in the mid-1550s. During the fourteenth century it is estimated that almost half of the population of continental Europe was killed as a result of the "Black Death," or bubonic plague that is carried by rats. Rats are thought to have migrated to North America in the late 1700s after stowing away on ships. In addition to disease, the rat also wrecks havoc on farmer's crops, attacking small animals, etc.

Rats can be beneficial as well. They have allowed for important scientific discoveries in the laboratory environment in the areas of AIDS, cancer, and brain research. They are a valuable research and diagnostic tool due to their anatomical and physiological similarities to the human, high reproductive rate, and ease of maintenance.

Rats and humans belong to Domain Eukarya, Kingdom Animalia, Phylum Chordata, Subphylum Vertebrata, and Class Mammalia. The two primary mammalian characteristics that distinguish them from other vertebrates such as fish, amphibians, birds, and reptiles, is that their skin is covered with hair or fur and they have milk producing mammary glands in the female to nurse the young. Below is the entire classification of the white laboratory rat (a variety of the Norway rat) and humans.

White Rat

Domain—Eukarya
Kingdom—Animalia
Phylum—Chordata
Subphylum—Vertebrata
Class—Mammalia
Order—Rodentia
Family—Muridae
Genus—*Rattus*
Species—*norvegicus*
Variety—*albinus*

Human

Domain—Eukarya
Kingdom—Animalia
Phylum—Chordata
Subphylum—Vertebrata
Class—Mammalia
Order—Primates
Family—Hominidae
Genus—*Homo*
Species—*sapien*

As you can see, rats and humans are similar through Class Mammalia, it is at the Order level where they differ. It is thought that there are probably more species of rodents today than all other mammals combined.

Rats typically begin to breed at 3 months of age and can produce a litter of about 8 young every 21-25 days. The average lab rat's lifespan is about 36 months, whereas rats in the wild typically live about 12-18 months.

Anatomical Terminology

There are many anatomical terms used when referring to organisms. The terms used in this laboratory are for quadrupeds, or four-legged animals like rats, therefore, not all terms are used for bipeds, or two-legged animals such as humans.

Directional Terms:

- Cranial/anterior—toward the head
- Caudal/posterior—toward the tail
- Dorsal—toward the backbone
- Ventral—toward the belly

Planes of Sections:

- Transverse (Cross section)—perpendicular to the long axis of the body
- Sagittal—divides body into right and left halves
- Frontal—divides the body into dorsal and ventral parts

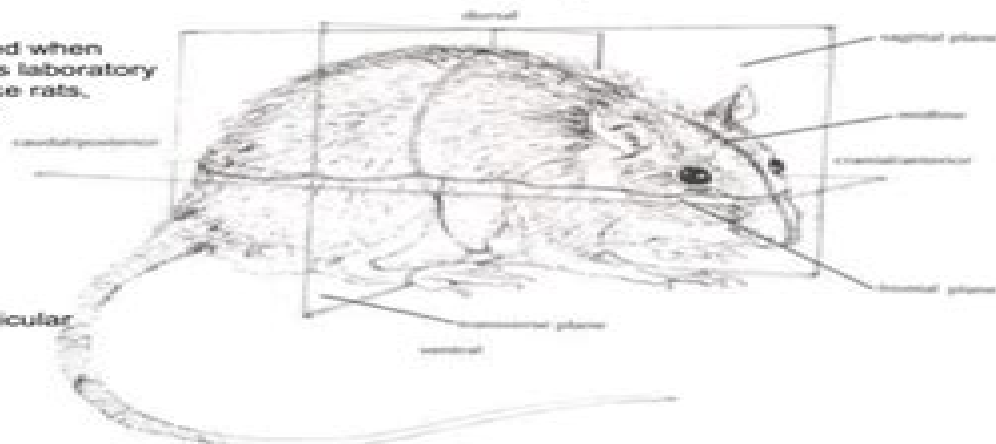


FIGURE N.1. Descriptive terminology and planes of section

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Yicheng Fang



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