

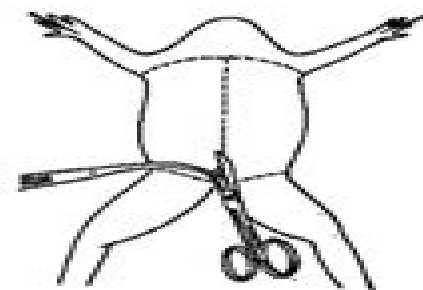
# Student Guide to the Frog Dissection

## Dissection Instructions

1. Place the frog in the dissecting pan ventral side up.
2. Use scissors to lift the abdominal muscles away from the body cavity. Cut along the midline of the body from the pelvic to the pectoral girdle.
3. Make transverse (horizontal) cuts near the arms and legs.
4. Lift the flaps of the body wall and pin back.

\*If your specimen is a female, the body may be filled with eggs and an enlarged ovary. You may need to remove these eggs to view the organs.

Locate each of the organs below. Check the box to indicate that you found the organs.



1. **Fat Bodies** --Spaghetti shaped structures that have a bright orange or yellow color, if you have a particularly fat frog, these fat bodies may need to be removed to see the other structures. Usually they are located just on the inside of the abdominal wall. ☐
2. **Peritoneum** A spider web like membrane that covers many of the organs, you may have to carefully pick it off to get a clear view ☐
3. **Liver**--The largest structure of the the body cavity. This brown colored organ is composed of three parts, or lobes. The **right lobe**, the **left anterior lobe**, and the **left posterior lobe**. The liver is not primarily an organ of digestion, it does secrete a digestive juice called bile. Bile is needed for the proper digestion of fats. ☐
4. **Heart** - at the top of the liver, the heart is a triangular structure. The **left and right atrium** can be found at the top of the heart. A single **ventricle** located at the bottom of the heart. The large vessel extending out from the heart is the **conus arteriosis**. ☐
5. **Lungs** - Locate the lungs by looking underneath and behind the heart and liver. They are two spongy organs. ☐
6. **Gall Bladder** --Lift the lobes of the liver, there will be a small green sac under the liver. This is the gall bladder, which stores bile, (hint: it kind of looks like a booger) ☐
7. **Stomach**--Curving from underneath the liver is the stomach. The stomach is the first major site of chemical digestion. Frogs swallow their meals whole. Follow the stomach to where it turns into the small intestine. The **pyloric sphincter valve** regulates the exit of digested food from the stomach to the small intestine. ☐
8. **Small Intestine**--Leading from the stomach. The first straight portion of the small intestine is called the **duodenum**, the curled portion is the **ileum**. The ileum is held together by a membrane called the **mesentery**. Note the blood vessels running through the mesentery, they will carry absorbed nutrients away from the intestine. Absorption of digested nutrients occurs in the small intestine. ☐
9. **Large Intestine**--As you follow the small intestine down, it will widen into the large intestine. The large intestine is also known as the **cloaca** in the frog. The cloaca is the last stop before wastes, sperm, or urine exit the frog's body. (The word "cloaca" means sewer) ☐
10. **Spleen**--Return to the folds of the mesentery, this dark red spherical object serves as a holding area for blood. ☐
11. **Esophagus**--Return to the stomach and follow it upward, where it gets smaller is the beginning of the esophagus. The esophagus is the tube that leads from the frogs mouth to the stomach. Open the frogs mouth and find the esophagus, poke your probe into it and see where it leads. ☐

**STOP! If you have not located each of the organs above, do not continue on to the next sections!**

# Lab Report 33a Frog Dissection

**Clifford Adelman**



## Lab Report 33a Frog Dissection:

*Chapter Resource 33 Fishes and Amphibians Biology* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

**Laboratory Manual** Guy Andrew Bailey, Robert A. Greene, 1922      **Hole's Human Anatomy & Physiology** John Hole, 1996      **The Human Use of Animals** F. Barbara Orlans, 1998 This volume of case studies on animal ethics deals with important social controversies involving the human use of animals and analyzes the moral issues involved An introduction to ethical theory provides a framework to the 16 original case studies which include the use of animals in research testing and education as food as companion animals and in religious rites The book is intended for bioethics courses and animal career staff      **Concepts of Human Anatomy and Physiology** Stuart Ira Fox, 1989      **Report of the Agricultural Experiment Station of the College of Agriculture of the University of Minnesota ... to December 31, 1888** University of Minnesota. Agricultural Experiment Station, 1891      **Current Index to Journals in Education**, 2000      The Laboratory *Xenopus* sp. Sherril L. Green, 2009-12-02 *Xenopus* have gained increasing popularity as a laboratory animal and continue to serve as an important part of biomedical research This book offers a practical reference to the care and maintenance of captive clawed frogs With full color illustrations of management practices and technical procedures the text explores the wide range of responsibilities facing individuals who work with this species from husbandry compliance and veterinary care to housing and water quality management Numerous figures and tables enhance understanding of concepts An experienced researcher at a top tier institution the author provides an invaluable guide for facility technicians and animal caretakers

**Biennial Report of the Minnesota State Agricultural Experiment Station for the Biennial Period Ending December ...** St. Anthony Park Minnesota. Agricultural experiment station, University of Minnesota. Agricultural Experiment Station, 1893      *Report* University of Minnesota. Agricultural Experiment Station, 1893      **Signs & Traces** Clifford Adelman, 1989      Report Minnesota. Agricultural Experiment Station, Saint Anthony Park, 1893      **Life, Vol. II: Evolution, Diversity and Ecology** David E. Sadava, 2008 Co published by Sinauer Associates Inc and W H Freeman and Company Visit the Life Eighth Edition preview site LIFE HAS EVOLVED from its original publication to this dramatically revitalized Eighth Edition LIFE has always shown students how biology works offering an engaging and coherent presentation of the fundamentals of biology by describing the landmark experiments that revealed them This edition builds on those strengths and introduces several innovations As with previous editions the Eighth Edition will also be available in three paperback volumes Volume I The Cell and Heredity Chapters 1 20 Volume II Evolution Diversity and Ecology Chapters 1 21 33 52 57 Volume III Plants and Animals Chapters 1 34 51      **Preliminary 8mm Film Project Report and Listing of 8mm Films** University of Nebraska (Lincoln campus). College of Medicine. Communications Division, 1972 About 2200 film titles and their availability and use in the medical sciences Sources of information were both health institutions and commercial organizations Entries arranged under some 61 subject categories Each entry includes film data summary and distributor

information Includes annotated bibliography Title index distributors listing and geographical listing of production activities

**Laboratory Notes for Students of Physiology ...** Isaac Ott,1904      **Annual Report** University of Minnesota.  
Agricultural Experiment Station,1893      *Power On!* ,1988      *Annual Proceedings of Selected Research and Development*  
*Presentations at the ... Convention of the Association for Educational Communications and Technology* Association for  
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