

**DNA Extraction Lab**

**Purpose:** After reading *DNA Extraction from Wheat Germ*, design your own procedures for extracting DNA from a wheat germ sample.

**Materials:**

4 grams raw wheat germ	20 mL isopropyl alcohol	beaker of H <sub>2</sub> O
50 ml beaker	thermometer	graduated cylinder
1 mL detergent	pipette	DNA collection tool
test tube rack	test tube	scale

**Reading Notes:** While reading, determine what information might help you in writing your procedures. Write down specifics about what your steps should be, and any information on temperature or materials.

- Wheat germ is the source of DNA in this lab
- Warm water softens the membranes
- Enzymes denatures at 60° degrees C
- DNA denatures at 80° degrees C
- Detergent pulls apart the fats and proteins that make up the membranes = releases DNA
- Cold alcohol pulls the DNA out of the water/detergent/wheat germ solution

**Procedures:** Now that you have some idea of what is required to extract DNA, write down your procedures. There is not a set number of steps, so you do not need to use all of the space provided. After you have had your steps approved by your teacher, provide the reason you chose the selected step. **Important! The amounts listed above are the maximum allotted. You do not need to use the entire amount provided.**

Teacher Initials:

Steps	Reason for step
* These are the actual procedures for extraction. It is unlikely the students will be so specific...or accurate on their first trial.	1. Source of DNA
1. Place approx. 1 tsp. of raw wheat germ in a small beaker.	2. Warm water softens membranes and will aid in denaturing enzymes while not denaturing the DNA
2. Measure 15 ml of warm water (50 – 60 °C) in a graduated cylinder and pour it into the beaker with the wheat germ. Stir constantly with a spoon for 3 minutes.	3. Detergent pulls membranes apart
3. Add 6 drops of detergent to the mixture and stir GENTLY. Stir <i>gently</i> for 30 seconds, rest for 30 seconds and so on until 5 minutes is up. Try not to create foam.	4. N/A
4. After 5 minutes, there should not be any foam, but if there is, use a corner of the paper towel to	5. Allow reaction to take place
	6. Isolate the DNA solution from wheat germ waste
	7. Angle will aid in layering and peering
	8. Cold alcohol will pull the DNA out of solution
	9. Continued
	10. See the DNA!

# Dna Extraction Lab Answer Key

**W. Bryan Jennings**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Dna Extraction Lab Answer Key:**

Molecular Microbiology Laboratory Walt Ream, Bruce Geller, Katherine Field, 2012-08-31 Intends to teach principles and techniques of molecular biology and microbial ecology to upper level undergraduates majoring in the life sciences and to develop students scientific writing skills This title exposes students to the molecular based techniques It provides faculty with an accessible resource for teaching protocols WorldCat      **Introduction to Biology** National Agricultural

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Phylogenomic Data Acquisition W. Bryan Jennings, 2016-12-12 Phylogenomics is a rapidly growing field of study concerned with using genome wide data usually in the form of DNA sequence loci to infer the evolution of genes genomes and the Tree of Life Accordingly this discipline connects many areas in biology including molecular and genomic evolution systems biology molecular systematics phylogeography conservation genetics DNA barcoding and others With the advent of Next Generation Sequencing in addition to advances in computer hardware and software over the past decade researchers can now generate unparalleled phylogenomic datasets that are helping to illuminate many areas in the life sciences This book is an introduction to the principles and practices of gathering these data Phylogenomic Data Acquisition Principles and Practice is intended for a broad cross section of biologists and anyone else interested in learning how to obtain phylogenomic data using the latest methods *Introduction to Molecular Biological Techniques* Lawrence Jack Bradshaw, 1966

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development of critical thinking skills together support the ultimate goal of developing scientific literacy This book is organized around the themes of DNA science global ecology and evolution The key concepts discussed in the book are molecules cells and microbes plant structure and reproduction and plant diversity and the environment For anyone interested in botany plant biology     Proceedings ,1999     **Companion Animal News** ,1986

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