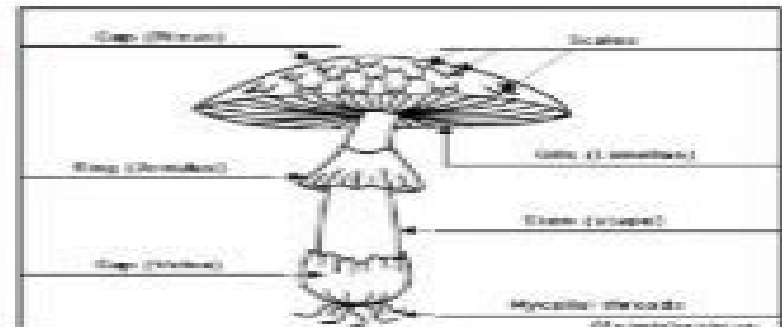


# Mushroom Dissection Lab

**Purpose:** The purpose of this lab is to acquaint students with various parts of a typical fungus. In this activity you will have the opportunity to really look closely at a mushroom specimen, readily purchased from your local grocery store.

**CAUTION:** Although the mushrooms used in this lab are intended for food - **DO NOT EAT OR TASTE THE MUSHROOMS USED IN THE LAB.** This will result in a ZERO for the lab.

**Background:** Fungi are critical parts of most ecosystems and an important part of the diet of many students (and teachers). Mushrooms are one member of the phylum Basidiomycota, a group of fungi named because their spores are produced on a structure called a basidium. They are saprophytic, which means that they obtain their food from digesting dead or decaying matter. They do not have chlorophyll and don't carry on photosynthesis; thus they are usually a color other than green. The object we usually call a mushroom is only a small part of the total organism. The mushroom itself is actually the fruiting body or reproductive structure of a fungus. The mycelium or main body consists of thread like hyphae which is spread out through the soil. The mushroom is a fruiting body that carries sexual spores and grows up from the mycelium. Mushrooms in the genus *Agaricus* are raised commercially and sold in most grocery stores. In this lab activity students will locate and identify the principle parts of the typical mushroom and study them with both dissecting and compound light microscopes.



## Materials:

Mushroom

Dissecting Microscope

Water Eye Dropper

Compound Light Microscope

Microscope slide

Dissection Pan

Forceps

Cover slip

Scalpel

Spore Print Paper

## Procedure Day 1:

1. Get your mushroom and place it on the paper towels in front of you. Examine it closely. In your lab notebook draw a diagram of your mushroom, **labeling the cap, stem and gills and any other visible parts.** If the gills are not visible, remove the tissue (it's called a veil) protecting them gently with your forceps. Be careful not to touch the gills with the forceps. **Diagram your mushroom in your lab notebook.**

2. Grasp the cap firmly with one hand and the stem with the other hand. Gently wiggle and/or twist the stem until it breaks away from the cap.

3. Pinch the stem between your fingers until it breaks into two or more long pieces. Gently pull the pieces apart. The thin, hairlike filaments you will see where you split the stem are the hyphae. Place the stem section under the dissecting microscope and examine the hyphae. **What do they look like? Draw and describe them on your answer sheet. Diagram your hyphae in your lab notebook.**

4. Place the stem pieces in your dissection pan and turn your attention to the cap. Look at the underside of the cap to study the gills. Each gill is lined with thousands of small structures called basidia. Using your forceps, gently remove one gill from the cap. You will get better results if you **GENTLY** grasp the gill near where it attaches to the cap. Try to avoid touching the free edge, the one along the bottom of the gill, with your forceps. The basidia you want to see under the microscope are fragile and easily damaged if you aren't careful.

5. Place the gill on a microscope slide and use the standard procedure for preparing a wet mount.

**Diagram your gill and basidia in your lab notebook. Be sure to label each.**



# Mushroom Dissection Lab

**RJ Shavelson**



## **Mushroom Dissection Lab:**

**CK-12 Biology Teacher's Edition** CK-12 Foundation, 2012-04-11 CK 12 Biology Teacher's Edition complements the CK 12 Biology Student Edition FlexBook

**Organic Mushroom Farming and Mycoremediation** Tradd Cotter, 2015-05-09

An in depth exploration of organic mushroom cultivation practices groundbreaking research and myriad ways to incorporate mushrooms into your life A clear comprehensive guide that is a gift to amateur as well as professional mushroom growers This book opens the doors wide to a diverse and fascinating fungal world Toby Hemenway author of Gaia's Garden What would it take to grow mushrooms in space How can mushroom cultivation help us manage or at least make use of invasive species such as kudzu and water hyacinth and thereby reduce dependence on herbicides Is it possible to develop a low cost and easy to implement mushroom growing kit that would provide high quality edible protein and bioremediation in the wake of a natural disaster How can we advance our understanding of morel cultivation so that growers stand a better chance of success For more than twenty years mycology expert Tradd Cotter has been pondering these questions and conducting trials in search of the answers In Organic Mushroom Farming and Mycoremediation Cotter not only offers readers an in depth exploration of best organic mushroom cultivation practices he shares the results of his groundbreaking research and offers myriad ways to apply your cultivation skills and further incorporate mushrooms into your life whether your goal is to help your community clean up industrial pollution or simply to settle down at the end of the day with a cold Reishi infused homebrew ale Inside you'll find The Fundamentals of Mushroom Cultivation Innovative Applications and Projects Using Fungi Basic Laboratory Construction Equipment and Procedures Starting Cultures and Spawn Generation Detailed descriptions of over 25 different genus The book first guides readers through an in depth exploration of indoor and outdoor cultivation Covered skills range from integrating wood chip beds spawned with king stropharia into your garden and building a trenched raft of hardwood logs plugged with shiitake spawn to producing oysters indoors on spent coffee grounds in a 4'x4' space or on pasteurized sawdust in vertical plastic columns For those who aspire to the self sufficiency gained by generating and expanding spawn rather than purchasing it Cotter offers in depth coverage of lab techniques including low cost alternatives that make use of existing infrastructure and materials Cotter also reports his groundbreaking research cultivating morels both indoors and out training mycelium to respond to specific contaminants and perpetuating spawn on cardboard without the use of electricity Readers will discover information on making tinctures powders and mushroom infused honey making an antibacterial mushroom cutting board and growing mushrooms on your old denim jeans Geared toward readers who want to grow mushrooms without the use of pesticides Cotter takes organic one step further by introducing an entirely new way of thinking one that looks at the potential to grow mushrooms on just about anything just about anywhere and by anyone This comprehensive introduction to growing and utilizing fungi has something for all mushroom inclined readers Both practical and passionate Cotter offers extensive and detailed information Publishers Weekly

[Discovery-Based Learning in the Life](#)

Sciences Kathleen M. Susman, 2015-06-29 For nearly a decade scientists educators and policy makers have issued a call to college biology professors to transform undergraduate life sciences education As a gateway science for many undergraduate students biology courses are crucial to addressing many of the challenges we face such as climate change sustainable food supply and fresh water and emerging public health issues While canned laboratories and cook book approaches to college science education do teach students to operate equipment make accurate measurements and work well with numbers they do not teach students how to take a scientific approach to an area of interest about the natural world Science is more than just techniques measurements and facts science is critical thinking and interpretation which are essential to scientific research Discovery Based Learning in the Life Sciences presents a different way of organizing and developing biology teaching laboratories to promote both deep learning and understanding of core concepts while still teaching the creative process of science In eight chapters the text guides undergraduate instructors in creating their own discovery based experiments The first chapter introduces the text delving into the necessity of science education reform The chapters that follow address pedagogical goals and desired outcomes incorporating discovery based laboratory experiences realistic constraints on such lab experiments model scenarios and alternate ways to enhance student understanding The book concludes with a reflection on four imperatives in life science research climate food energy and health and how we can use these laboratory experiments to address them Discovery Based Learning in the Life Sciences is an invaluable guide for undergraduate instructors in the life sciences aiming to revamp their curriculum inspire their students and prepare them for careers as educated global citizens

*Pete and Tillie* Dennis Giesbrecht, 2011-12 Someone once said that the art of medicine is to amuse the patient while nature heals the disease A few believe that doctors are able to restore a scrambled egg to its shell A doctor's task is to distinguish between the small proportion of ailments that are serious or life threatening and the vast majority that are benign self limiting or easily put right His task is blending science with the art of medicine a listening ear patience and compassion The episodes recounted here are based on a medical practice that has spanned four decades although most take place in the 80s and early 90s During these years there have been many advances in medicine some of which are chronicled in this book The tales are about actual patients but the particulars have been combined shuffled like a deck of cards embellished and modified There is comedy and heartbreak conditions familiar and obscure even a little research interspersed with tales of the unbelievable and creative ways in which people abuse their bodies and then demand that doctors reverse the damage The characters in this book are sophisticated and knowledgeable naive and ignorant wretched sweet and sometimes infuriating but always fascinating

Successful Training in Gastrointestinal Endoscopy Jonathan Cohen, 2011-04-08 Endoscopy is the primary diagnostic method for GI complaints and is replete with an ever expanding array of therapeutic capabilities Successful Training in Gastrointestinal Endoscopy will provide all gastroenterologists with the exact set of skills required to perform endoscopy at the highest level GI trainees will find it a crucial primer for learning endoscopy teachers will find it a

guide to understand how best to develop the expertise of their students and experienced practicing gastroenterologists will find it a useful refresher tool to brush up on their existing endoscopic skills and to familiarise themselves with new procedures including issues of safety and competence while performing them With contributions from internationally recognized leaders in endoscopy education and an endorsement by the World Organisation of Digestive Endoscopy each chapter will examine the specific skill sets and procedure related tasks which must be mastered when learning a particular technique including Specific descriptions of accessories required Standard training methods for the procedure Optimal utilization of novel learning modalities such as simulators Quality measures and objective parameters for competency Available tools for assessing competency once training has been completed In addition to the 400 high quality outstanding colour photos the book will come with a DVD containing over 130 annotated teaching videos of both actual procedures and ex vivo animal model simulations These videos will illustrate in a step by step fashion the proper techniques to be followed highlighting clinical pearls from the experts and the most common mistakes to avoid Successful Training in Gastrointestinal Endoscopy will be a key purchase for all gastroenterologists whether in training or experienced to allow them to develop and perfect their endoscopic skills It will be a particularly useful guide for those interested in mastering the latest new techniques and procedures and an essential reference for teachers of endoscopy and students alike Note DVD and other supplementary materials are not included as part of eBook file These materials are available for download upon purchase

The Self Illusion Bruce Hood, 2012-05-23 Most of us believe that we are unique and coherent individuals but are we The idea of a self has existed ever since humans began to live in groups and become sociable Those who embrace the self as an individual in the West or a member of the group in the East feel fulfilled and purposeful This experience seems incredibly real but a wealth of recent scientific evidence reveals that this notion of the independent coherent self is an illusion it is not what it seems Reality as we perceive it is not something that objectively exists but something that our brains construct from moment to moment interpreting summarizing and substituting information along the way Like a science fiction movie we are living in a matrix that is our mind In The Self Illusion Dr Bruce Hood reveals how the self emerges during childhood and how the architecture of the developing brain enables us to become social animals dependent on each other He explains that self is the product of our relationships and interactions with others and it exists only in our brains The author argues however that though the self is an illusion it is one that humans cannot live without But things are changing as our technology develops and shapes society The social bonds and relationships that used to take time and effort to form are now undergoing a revolution as we start to put our self online Social networking activities such as blogging Facebook Linkedin and Twitter threaten to change the way we behave Social networking is fast becoming socialization on steroids The speed and ease at which we can form alliances and relationships is outstripping the same selection processes that shaped our self prior to the internet era This book ventures into uncharted territory to explain how the idea of the self will never be the same again in

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