

Name: _____

Date: _____

Student Exploration: Paramecium Homeostasis

Vocabulary: adaptation, cell mouth, cilia, concentration, contractile vacuole, food vacuole, homeostasis, hypertonic, hypotonic, macronucleus, micronucleus, oral groove, osmosis, paramecium, solute, solution, solvent

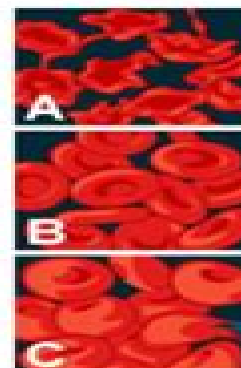
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. The images show red blood cells (RBCs) in three different **solutions**.

- Which image shows RBCs in normal blood plasma? b
- Which image shows RBCs in pure water? c
- Which image shows RBCs in a very salty solution? a

2. What do you think is happening in images A and C? _____

H₂O is either leaving or entering the red blood cells.



Gizmo Warm-up

A **paramecium** is a one-celled organism that lives in ponds and other bodies of water. One of the challenges for a paramecium is to maintain a stable size and shape.

On the *Paramecium Homeostasis* Gizmo, turn on the **Show labels** checkbox. Try to determine the function of each of the labeled structures.



1. Through which two structures do you think food enters the paramecium? The oval groove and cell mouth

2. Which two structures contain DNA? the micronucleus and the macronucleus

3. Which tiny structures help the paramecium to move around? cilia

4. Which structure pumps out excess water and wastes? the contractile vacuole

Virtual Lab Activity Answer Key Paramecium

Wenbin Ji



Virtual Lab Activity Answer Key Paramecium:

Protists Biology 2004 Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Nuclear Science Abstracts**, 1969-05 2022 Computer Science - Editor's Pick Kaleem Siddiqi, Roberto Therón, Kostas Karpouzis, Sven Schewe, Nicola Zannone, Marcello Pelillo, Kristof Van Laerhoven, Paul Lukowicz, 2023-04-06 Biology, 1999 **Abstracts of the ...**
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Quarterly Cumulative Index to Current Medical Literature. V. 1-12; 1916-26, 1926 **B.A.S.I.C.**, 1967
Microbiology Abstracts, 1991 Cumulated Index Medicus, 1974 *Physics Briefs*, 1994 **Aerospace Medicine and Biology**, 1989 *Agrindex*, 1995 Canadian Journal of Zoology, 1984 **Chemical Abstracts**, 1995-09-11
American Men of Science James McKeen Cattell, Jaques Cattell, 1938 **The FASEB Journal**, 1990 *Science Citation Index*, 1995 Vols for 1964 have guides and journal lists **A Tetrazolium Method for Enzymatic Activity in Paramecium Caudatum** Robert Francis Ballweg, 1966

This book delves into Virtual Lab Activity Answer Key Paramecium. Virtual Lab Activity Answer Key Paramecium is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Virtual Lab Activity Answer Key Paramecium, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Virtual Lab Activity Answer Key Paramecium
 - Chapter 2: Essential Elements of Virtual Lab Activity Answer Key Paramecium
 - Chapter 3: Virtual Lab Activity Answer Key Paramecium in Everyday Life
 - Chapter 4: Virtual Lab Activity Answer Key Paramecium in Specific Contexts
 - Chapter 5: Conclusion
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 5. In chapter 4, the author will scrutinize the relevance of Virtual Lab Activity Answer Key Paramecium in specific contexts. The fourth chapter will explore how Virtual Lab Activity Answer Key Paramecium is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Virtual Lab Activity Answer Key Paramecium. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Virtual Lab Activity Answer Key Paramecium.

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