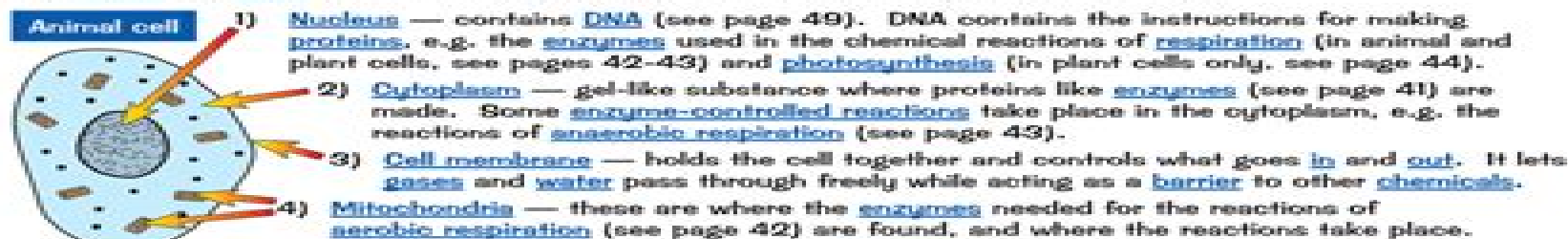


Cell Structure and Function

Every **living thing**, from your teacher to your pet pooch, is made up of the same basic **building blocks** — **cells**. Lots of important **chemical reactions** happen in cells — you need to know about the different parts involved.

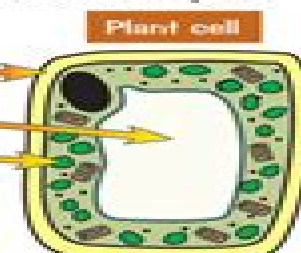
Plant and Animal Cells Have Similarities and Differences

Most **animal** and **plant** cells have the following parts — make sure you know them all:



Plant cells also have a few **extra** things that animal cells **don't** have:

- 1) Rigid **cell wall** — made of **cellulose**. It **supports** the cell and strengthens it.
- 2) **Vacuole** — contains **cell sap**, a weak solution of sugar and salts.
- 3) **Chloroplasts** — these are where the reactions for **photosynthesis** take place. They contain a green substance called **chlorophyll** and the **enzymes** needed for photosynthesis.



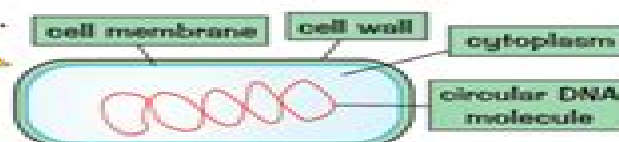
Yeast are Single Celled Microorganisms

- 1) **Yeast** are used to make **bread** and **wine** (see page 43).
- 2) You need to **learn** the **different parts** of a yeast cell:



Bacteria Have a Simple Cell Structure

- 1) **Bacterial** cells are a bit different to plant, animal and yeast cells. You need to **know** the **different parts** of a bacterial cell:
- 2) They **don't** have a **nucleus**. They have a **circular molecule of DNA** which floats around in the cytoplasm.
- 3) They **don't** have **mitochondria** either, but they **can** still **respire aerobically**.



At yeast it's an easy page...

It might look like there's lots on the page but don't let that put you off — it's not as mind boggling as it seems and there's a **dead simple** way of learning it all. Just draw a **table** showing the **different parts** of **plant**, **animal**, **yeast** and **bacterial** cells. Then learn the table and before you know it you'll be an **expert** on cells just like me.

Biology Cells And Their Functions Study Guide

**David E. Sadava, Gordon H.
Orians, Craig Heller, William K. Purves**



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Table of Contents Biology Cells And Their Functions Study Guide

1. Understanding the eBook Biology Cells And Their Functions Study Guide
 - The Rise of Digital Reading Biology Cells And Their Functions Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Cells And Their Functions Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Biology Cells And Their Functions Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Cells And Their Functions Study Guide
 - Personalized Recommendations
 - Biology Cells And Their Functions Study Guide User Reviews and Ratings
 - Biology Cells And Their Functions Study Guide and Bestseller Lists
5. Accessing Biology Cells And Their Functions Study Guide Free and Paid eBooks
 - Biology Cells And Their Functions Study Guide Public Domain eBooks
 - Biology Cells And Their Functions Study Guide eBook Subscription Services
 - Biology Cells And Their Functions Study Guide Budget-Friendly Options
6. Navigating Biology Cells And Their Functions Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Cells And Their Functions Study Guide Compatibility with Devices
 - Biology Cells And Their Functions Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Cells And Their Functions Study Guide
 - Highlighting and Note-Taking Biology Cells And Their Functions Study Guide
 - Interactive Elements Biology Cells And Their Functions Study Guide
8. Staying Engaged with Biology Cells And Their Functions Study Guide

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Biology Cells And Their Functions Study Guide
- 9. Balancing eBooks and Physical Books Biology Cells And Their Functions Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Cells And Their Functions Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Biology Cells And Their Functions Study Guide
 - Setting Reading Goals Biology Cells And Their Functions Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Biology Cells And Their Functions Study Guide
 - Fact-Checking eBook Content of Biology Cells And Their Functions Study Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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