

# Introduction

Cell has three generalization otesale.co.uk

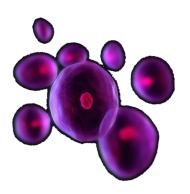
Preview from 6 of 40

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All organisms are composed of one or more cells.

The cell is the smallest unit having the properties of life.

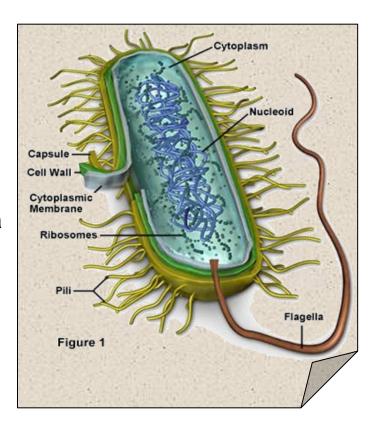
All cells come from pre-existing cells.



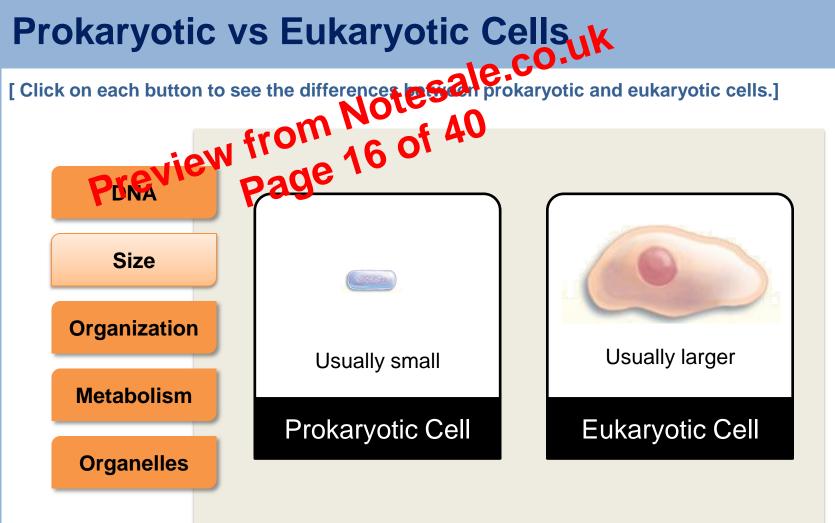


# **Characteristics of Prokaryotic and** Small Prokaryotic Cotts are Simple but Fast **Eukaryotic Cells**

- Small cellesuch as bacteria divide fast (P10 min)- due Raphigh surface/ volume ratio
- Size: mycoplasmas : 0.1-1 micron dia.; other bacteria 1-10 micron dia.
- Have no nucleus: DNA less protected, mutates faster.
- One compartment- like a chem lab with a single beaker
- Most have a rigid cell wall
- May have a capsule outside the cell wall, pili (for attachment), flagella (for motion)









# Prokaryotic vs Eukaryotic Cellsuk [Click on each button to see the differences became prokaryotic and eukaryotic cells.] Prokaryotic vs Eukaryotic Cellsuk [Click on each button to see the differences became prokaryotic and eukaryotic cells.]

**Size** 

**Organization** 

Metabolism

**Organelles** 



No membrane-bound organelles

**Prokaryotic Cell** 



Have membrane-bound organelles

**Eukaryotic Cell** 



## References

- Gerald Karp (2008). Cell and Molecular Biology Concepts and Fine Aments (2008 Ed). John Wiley & Sons, Inc.
- Cecie Starr & Bevery McMillan (2007). Human Biology (7th) Ed). Thomson Brooks/Cole
- Sylvia S. Mader (2004). *Human Biology (*8th Ed). McGraw Hill



# **Appendix**

Appendix	io co.uk
Figure	Notesale.co.uk Source
Pregiew fr	Source Ohtp://babygarworld.com/wp- comen/uploads/2010/04/Your-Role-as-a-Family- Member.jpg
Fig.2	http://foodfreedom.files.wordpress.com/2011/02/aca cia-pycnantha-oz-natl-flower.jpg
Fig.3	http://www.pictures-of-cats.org/images/skookum-kewpie-cats-middle.jpg
Fig.4	http://www.futurity.org/wp-content/uploads/2010/09/cells_1.jpg
Fig.5	http://www.nslc.wustl.edu/courses/Bio2960/labs/04 Organelle/dualcelA.jpg
Fig.6	http://www.labessentials.com/Obs2D.jpg