

## Cell Structure Module 2 Cheat Sheet by Alina via cheatography.com/64391/cs/16258/

	Light Microscope Vs Electron Microscope			Eukaryotic Cell Structure (con		
	Light Microscope	Electron Microscope		Lysosomes	- No clear internal - Conatins hydroly	
	Inexpensive to buy and	Expensive to buy			which breakdown organelles	
	operate Small and	Vacuum is required		Centrioles	- Help to position of a flagella and cilia	
	portable	vacuum is required		Ribosomes	- Site of protein sy	
	Simple sample preparation	Preparation often distorts material		Golgi - Modifies protein apparatus 'packages' them		
		Black & white images produced (but can be			leave the cells or I stay in the cell	
	seen (or stains are used)	coloured digitally)		Cytoskeleton: - Microfilaments		
	Up to x2000 magnification	Over x500,000 magnification		<ul><li>☐ Cell movement</li><li>☐ Contraction during cytokines</li></ul>		
	Resolving power is 200nm	Resolving power of a TEM microscope is 0.5mm and a scanning electron microscope is 3 – 10nm		<ul> <li>Microtubules</li> <li>Forms a stable structure detended</li> <li>shape</li> <li>Acts as a track to determine vesicles</li> </ul>		
	Specimen can be living or dead	Specimen are dead		☐ Make up spindle fibres that chromosomes - Intermediate Fibres		

			_
Fukary	otic.	Cell	Structure

Nucleus

- Contains coded genetic information
- Directs synthesis of proteins
- Controls metabolic activities
- Nuclear envolope has pores to allow molecules to move in and out

Nucleolus

- Makes the ribosomes

Mitochond - Where respiration takes place

ria

- Releases energy
- Cristae (fold) used in aerobic respiration and ATP is produced

Vesicles

- Membranous sacs that stores and transports
- Single membrane with fluid inside

## nt)

- al structure
- ytic enzymes waste and

organisms with

ynthesis

ns and in to vesicles to lysosomes to

- sis
- termining cell
- movement e.g.
- separate
- $\hfill \square$  Mechanical strength, helping to keep integrity



By **Alina** 

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Not published yet. Last updated 5th July, 2018. Page 1 of 1.

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