

BIOLOGY EUKARYOTIC AND PRO Cheat Sheet

by Lao via cheatography.com/192498/cs/40085/

PROKARYO	TIC EUKARYOTIC	cells first part		cells first pa	rt (cont)
Prokaryotic unicellular	pro means before and karyon means nut or kernel- (nucleus)	THREE DOMAINS OF LIFE	bacteria archaea and eukarya	plasmo- desmata	holes in the cell wall that allow the communication and transportation of materials(pl-
Eukaryotic multicellular	eu means true	Eukarya includes	protista plantae fungi animalia	asexual rep	ants) roduction
Prokaryotic	first and oldest type of cell	prokaryotic ce	ells parts and terms	budding	new organism develops
three domain system	archaea, bacteria eukarya	pili	used for transfer of DNA from one bacterium to anotehr	fragme- ntation	a piece of the body or
Eukaryotic	protist, fungus a plant or an	fimbriae	adhering cells to surface	vegetative	new plants are produced from root
organism can be	animal	nucleoid region	contains its genetic material in a form of DNA (short	sexual reprod-	when the sperm from the male parent fertilizes an egg from
differences in organelles			double-stranded, circular	uction	the female parent
prokaryotic cells	no membrane-bound organelles	Plasmids	loop) antibacterial resistance	THREE MAIN FORM OF BACTERIAL SEXUAL REPRODUCTION*	
eukaryotic	membrane-bound organelles	flagella or flagellum	allows locomotion	conjug- ation	one bacterium transfers genetic mat to another through
genetic material		plasma	semi permeable membrane		direct contact
prokaryotic	short, circular DNA has no	membrane		transform- type of prokaryotic rep in	
cells	introns or exons	cell wall	maintains the shape	ation	which a prokaryote can take up DNA found within the
eukaryotic	long, linear DNA has introns	capsule	protective layer	6	environment that has originated from other prokar-
cells	or exons	cytoplasm	water, nutrients, etc.		
ribosomes	70-	ribosomes	rRNA and proteins smaller		yotes
prokaryotic	smaller ribosomes 70s	Corre alle e mer	(70S0	transd-	genetic recombination in
eukaryotic	larger ribosomes 80s	Svedberg (S)	unit of rate of settling down of particles on a particular	uction	bacteria in which genes from a hostcell are incorporated in to
	sizes and complexity		medium.		the genome of a bacterial virus
prokaryotic	smaller and less complex	PROKAR- YOTIC	asexual reproduction through a process knows as		and then carried to another host
eukaryotic reproduction	larger and more complex				
prokaryotic	asexual	CELL	binary fission	transf-	electrical shock
eukaryotic	sexual	REPROD- UCTION		ection	
Canalyono		EUKARYOTIC CELLS			
		centriole	produce spindle fibers that aid in chromosome		



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part 2					
common features of pro and eukaryotic	plasma membrane cytoplasm DNA nucleoid region Nucleus ribosomes				
TERMS					
organelles	enable the cell to live grow and reproduce				
cell membrane	outer later of cell; allow nutrients in to the cell and wastes outside of the cell <i>gate</i> in to the city				
cytoplasm	jelly like fluid contained in the cell that holds the organelles				
the nucleus	control center of the cell; contains the cell's DNA mayor's office				
Mitoch- ondria	power center; provides the energy the cell needs; <i>electric</i> company of the cell				
ribosomes	site where proteins are made ; cell parts are made of proteins factories of the cell				

part 2 (cont)	
endopl- asmic reticulum	transportation system; rough ER-ribosomes attached smooth ER_no ribosomes's roadways of the cells
golgi complex	packaging house of cells <i>UPS</i> of the cell
lysosomes	digest food particles and cells parts; protects cell <i>garbage</i> and police men
vauole	largest organelle in plants cell ; stores water food and wastes
cell wall	found only in plant cells; protects ad supports the cell
chrolo- plasts	found only in plants cells where photosynthesis takes place



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