

Escape ALIVE

YOUR CHALLENGE:

Your best friend's cells have mutated into the "zombie virus." The cure is locked in away in a nearby location. You must quickly answer these puzzles about prokaryotic and eukaryotic cells to get your hands on the cure. Otherwise, your friend will be doomed to be a brain-eating zombie forever. Don't waste time - he's counting on you!

YouTube Link <https://youtu.be/dp1AWxEI1FA>

Digit Lock Link Below:

<https://docs.google.com/forms/d/e/1FAIpQLSdMOkyP9RxvOX6Qk0w9ohNdwOipLBiXyDPIUsnM3kR8umbUyA/viewform>

Puzzle 1:

I fall into a gray area between li_____ing and nonliving thing.

I am not a cell. I am just a piece of DNA or RNA (never both), surrounded by a protein coat called a caps_____d.

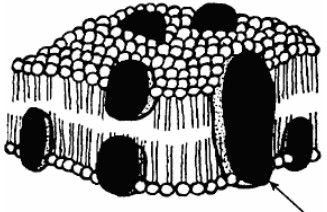
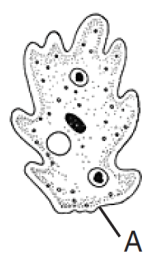
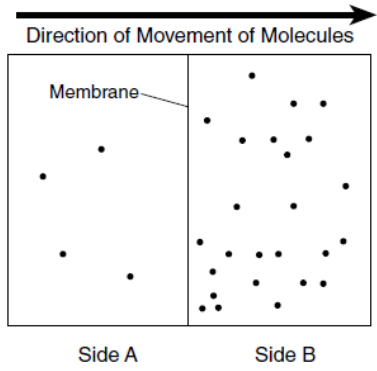
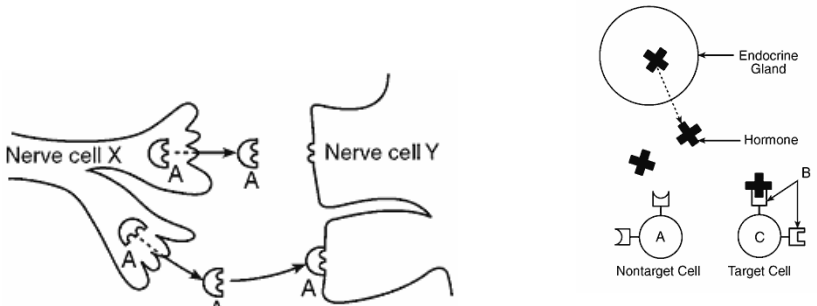
I am a thousand times smaller than even a bacterium and can exist in a wide variety of shapes and forms.

I am often described as “obligate intracellular pa_____asites” because I must be inside a living cell to reproduce and the relationship with my host is parasitic (the guest benefits at the expense of the host).

I are *not* made of cells, and do *not* obtain or use energy to run metabolic activities (I do *not* have a metabolism because I are just a particle). I do *not* grow in size or develop over a lifetime from a juvenile to mature. I do *not* have the ability to respond to a stim_____lus in their environment, and do *not* maintain homeostasis as living cells do when they exchange gases, expel waste, or take in food and water.

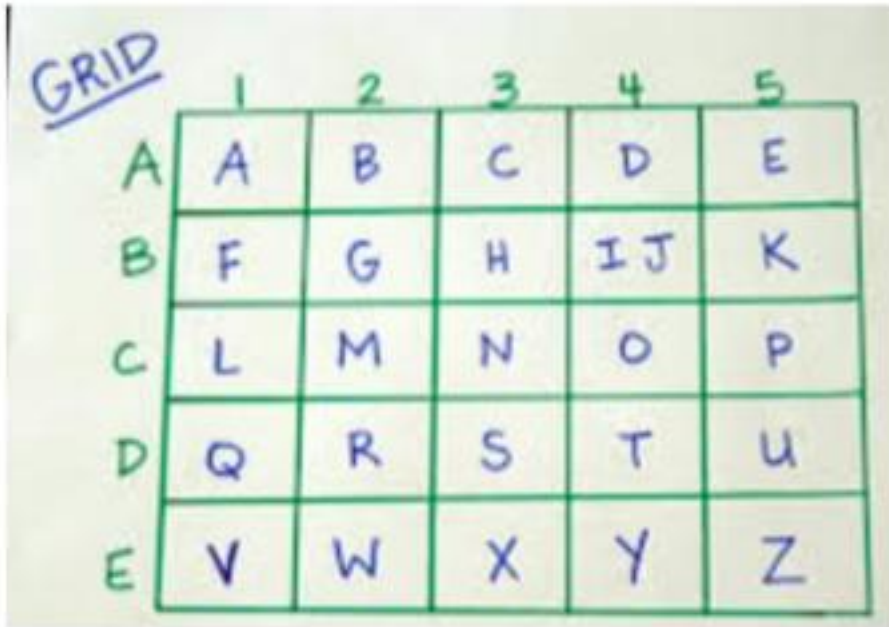
I *do* have genes that can mutate and give myself a new characteristic that might allow me to have an advantage in my environment. I do “reproduce,” but am not capable of doing this independently, and I do not divide as a cell does using mito_____is or binary fission. Making more of me is called replication rather than reproduction because I take over a living cell and use the cell’s existing machinery to make copies of myself by assembling more pieces of nucleic acids and protein coats.

Puzzle 2:

<p>1 lipid floating in proteins</p>		<p>2 protein floating in lipids</p>								
<p>3 cell membrane</p>	<table border="1" data-bbox="381 483 1263 661"> <thead> <tr> <th>Human Structures</th> <th>Functions</th> </tr> </thead> <tbody> <tr> <td>alveoli</td> <td>absorption of oxygen, excretion of carbon dioxide</td> </tr> <tr> <td>kidney</td> <td>excretion of salts and nitrogenous wastes</td> </tr> <tr> <td>large intestine</td> <td>absorption of water</td> </tr> </tbody> </table>	Human Structures	Functions	alveoli	absorption of oxygen, excretion of carbon dioxide	kidney	excretion of salts and nitrogenous wastes	large intestine	absorption of water	<p>4 nucleus</p>
Human Structures	Functions									
alveoli	absorption of oxygen, excretion of carbon dioxide									
kidney	excretion of salts and nitrogenous wastes									
large intestine	absorption of water									
<p>5 active transport diffusion</p>		<p>6 insertion deletion</p>								
<p>7 diffusion</p>		<p>8 active transport</p>								
<p>1 Receptor Molecule</p>		<p>2 Channel Protein</p>								

Puzzle 3:

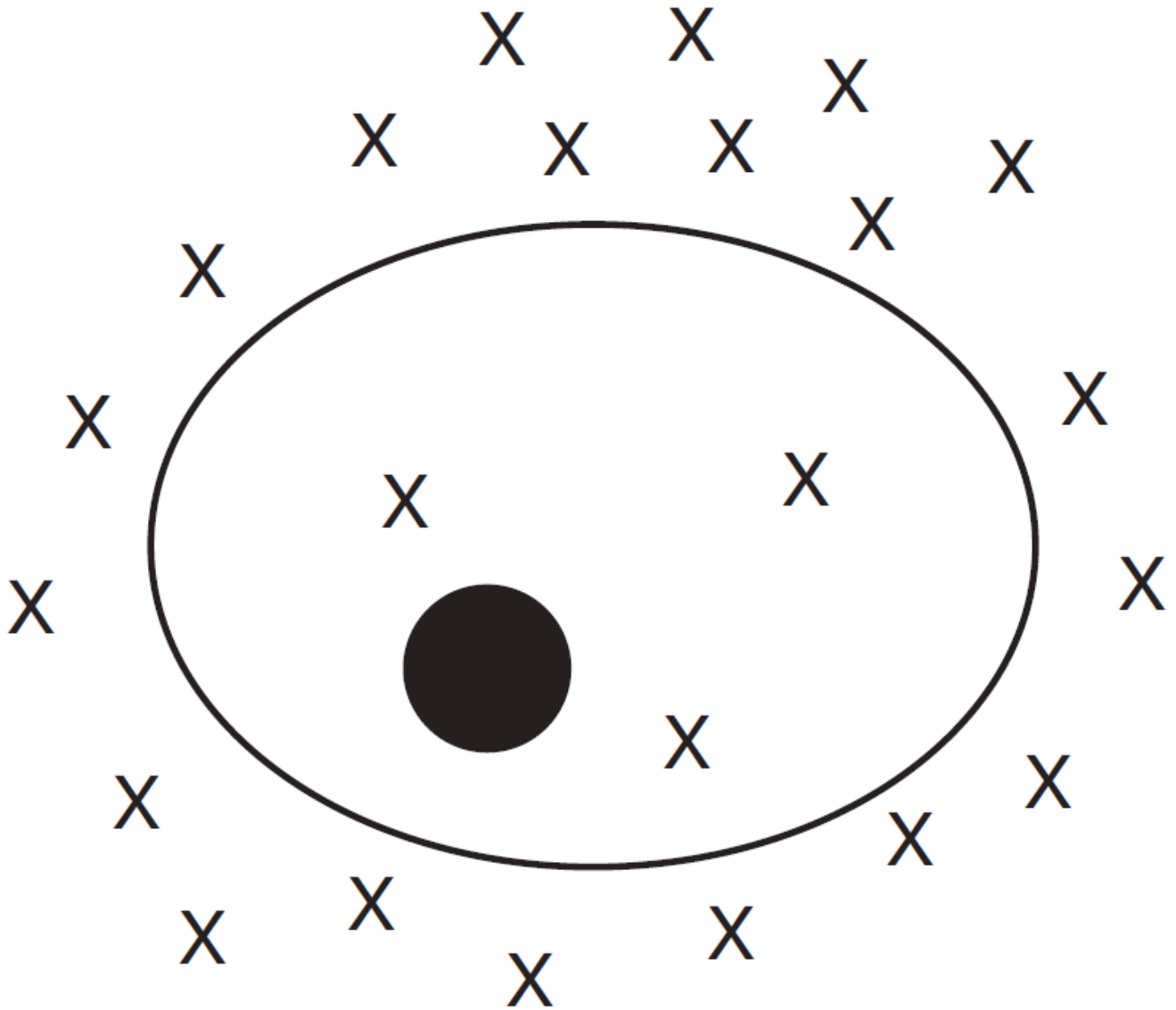
D3 B4 C2 B4 C1 A1 D2 B4 D4 B4 A5 D3
of prokaryotic and eukaryotic cells
A1 A2 A3 C4 D2 A4 A5 D2



3 Cell Membrane	2 Cytoplasm	5 Nucleus
6 DNA	1 Ribosome	4 Mitochondria

Puzzle 4:

Move X out of the cell...



Puzzle 5:

TINHK YUO CNA SVAE YURO FIREND?
CALISSFY AS PORKAYRTOIC OR EKUAYRTOIC.
PTTAREN RVEELAS CDOE.

A. Prokaryotic	B. Eukaryotic

Advanced 20

Membrane bound 40

Primitive 50

Unicellular 35

Not Membrane bound 40

Multicellular 50

Puzzle 6:

NEWS ALERT

Set to AT

wyvrhyfvapj

wyvkbjl

nlulapjhssf

pkluapjhs jlssz



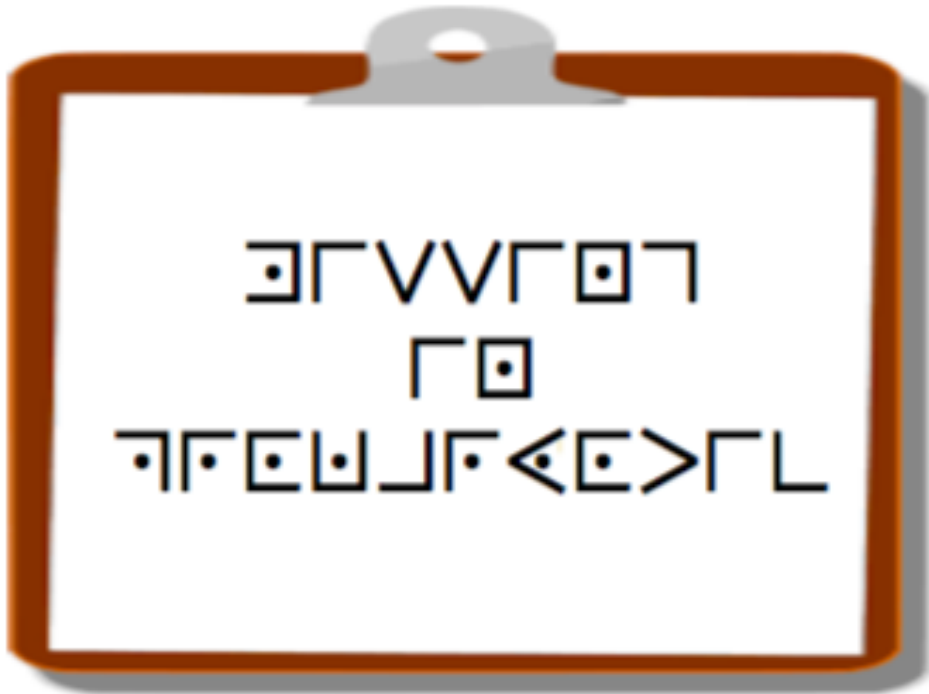
Puzzle 7:

A	B	C
D	E	F
G	H	I

J	K	L
M	N	O
P	Q	R

	S	
T		U
	V	

	W	
X		Y
	Z	



Puzzle 8:



Get the zombie cure!! Use the phone to dial for help!

The _____ _____ are the
“powerhouse.” The _____ _____ is where
proteins are made. The _____ _____ stores
nutrients, waste, and water. All of these are examples of
cell _____ _____.