-	-						
	nt	rn	~			\mathbf{a}	n
		ıv	u	u	cti	v	

cell a	and allowside to the cell	eep bulky materials inside the substances to pass from the and other substances to pass				
	ne opposite direction.					
What We	e Know					
the	world outside of the cell, on the world inside the cell,	membrane, separates r space, or				
• Both	• Both/neither plant and animal cells have a cell membrane.					
• Fund	Functions of the cell membrane include:					
0	 Holding the cell, keeping its parts in place 					
0	Mediating cellular process materials that enter and e					
0	Carryingeach other and transmit s	_ that allow cells to recognize ignals.				
•	is another wo	rd for "fat."				
•	are what make up the cell membrane.					
0	The	"head" interacts with water.				
0	Thewater.	"tails" do not interact with				

so that the heads a	es up the phospholipid
solution of water a	would happen to a cell that is put in a nd salt where there is a higher lit outside the cell than inside.
0	
 Name two things the do. 	nat proteins embedded in cell membranes
	
being trapped inside electrically charged	enerated by negatively charged proteins le cells influences the movement of across the membrane. The nside the cell attract positive/negative
•	electrical charges creates a form of stored . Changing the
of a membrane cau	uses movement of ions because:
concentration	ns move from areas of <u>high/low</u> to areas of <u>high/low concentration</u> . This laws of diffusion.
 Charged atom opposite/simil 	ns are attracted to regions of lar charge.

How We Know

•		scientists were able to conclude the existence of membrar because:			
	0	Something was how water and other chemicals were getting into and out of cells.			
	0	When the surface of a cell was punctured, materials inside the cell out.			
•	lipid	of the clues to knowing that membranes are made up of s is that fatty substances entered cells e other kinds of chemicals passed or not at			
•	disc exac	bilayer nature of membranes discussed earlier was overed because the total surface area of a lipid was ctly the surface area needed to pletely surround the cell.			
•	Mei	mbrane proteins are classified into two groups:			
	0	proteins are anchored on the side of the membrane and do not go completely through the membrane.			
	0	proteins pass completely through the membrane with parts of the protein hanging out of either side.			

Common Hazards

•	is attracted to and concentrates in cell
	membranes.
•	Alcohol can change the function of cells and thus affect behavior. This change in behavior is called
•	Alcohol orients itself in the cell membrane so that the carbon portion of the molecule aligns with the phosphate heads/carbon tails . OH group aligns with the phosphate heads/carbon tails .
	 The resulting change in the membrane changes the shape and function of the embedded in the membrane.