Physiology 31 – Cellular Structure & Function Worksheet

To review cell structures and their functions, use your textbook and lab manual to fill in the missing squares in the table.

Cell Structure	Description	Function
Plasma membrane	Phospholipid bilayer studded	
	with proteins; surrounds the	
	cell	
	Large organelle surrounded by	
	a double layered, porous	
	nuclear envelope, and	
	containing chromosomes	
Nucleolus	Spherical organelle within the	
	nucleus	
Ribosomes	Tiny spherical bodies	
	composed of RNA & protein	
Endoplasmic reticulum	1	Protein & lipid synthesis
1		
- Smooth ER	Membranous tubes without	
	ribosomes	
- Rough ER	Membranous tubes with	
	ribosomes embedded	
Golgi apparatus	Stack of flattened	
	membranous sacs near the ER	
	Small, spherical bodies	
	containing acidic hydrolytic	
	enzymes	
Perixosomes	Small, spherical bodies	
	containing oxidase enzymes	
	Hotdog shaped bodies with	
	smooth outer membrane,	
	folded inner membrane, &	
	many respiratory enzymes	
Centrioles	Paired cylindrical bodies near	
	the nucleus	
	Fibrous proteins including	Provide cellular support and
	microfilaments, intermediate	movement
	filaments, & microtubules	
Inclusions (nonmembrane		Some used as energy sources
bound substances)		