

Discussion:

Bag no.:

Names:

Cell type:	Generalized cell function	Justification for the choice of organelles
Erythrocyte Drawing:	<ul style="list-style-type: none">- Main cell in the blood- Carries oxygen to and picks up carbon dioxide from peripheral tissues- Predominant protein includes hemoglobin- Does not perform gene expression or require oxygen	
Neutrophil Drawing:	<ul style="list-style-type: none">- White blood cell primarily responsible for phagocytosing microbes- Highly deformable cell capable of leaving the bloodstream to enter tissues, and so requires a nucleus that is more flexible	
Enterocyte Drawing:	<ul style="list-style-type: none">- Epithelial cell found in your intestine- Expresses membrane enzymes to absorb small dietary molecules- Absorbs molecules like monosaccharides, amino acids, and fatty acids	
Pancreatic acini Drawing:	<ul style="list-style-type: none">- Glandular cell in the exocrine portion of the pancreas- Expresses and secretes digestive enzymes that are released into the intestinal environment	
Cardiac myocyte Drawing:	<ul style="list-style-type: none">- Type of muscle cell found in the heart- Main function is contraction- Contains intracellular stores of calcium (necessary for contraction event)- Is formed from the fusion of many smaller cells	
Theca cell Drawing:	<ul style="list-style-type: none">- Cells found in the ovary- Produce a steroid hormone that is a precursor to estrogen	

Total points for this assignment is 17 points: 1 pt for each drawing and the remaining for the justifications