**Inside the Cell**



**Inside the Cell**

|  |  |
| --- | --- |
| http://www.animalport.com/img/Animal-Cell.jpg | http://www.eecs.berkeley.edu/Programs/doublex/spring03/strawberrydna_files/image003.jpg |

Organelle: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Functions:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Function 1 – Produce Energy | Function 2 – Build/Transport Materials | Function 3 – Store/Recycle Materials |
| Job Description |  |  |  |
| Organelles that do that job |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Name of Cell Part** | **Job** | **Picture** |
| Cell Membrane |  |  |
| Cell Wall |  |  |
| Nucleus(Chromatin) |  |  |
| Cytoplasm |  |  |
| Mitochondria |  |  |
| Chloroplast |  |  |
| Vacuole |  |  |
| Endoplasmic Reticulum | Rough |  |  |
| Smooth |  |
| Ribosome |  |  |
| Golgi Body (Apparatus) |  |  |
| Lysosome |  |  |

**Specialization of Cells:**

Specialized Cells: ­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Cell differentiate to do specific functions required by a part of the body.

Watch the [video](http://www.pbslearningmedia.org/resource/tdc02.sci.life.stru.different/cell-differentiation/) and explain what you learn.

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**Cell Organization:**

|  |  |  |
| --- | --- | --- |
| **Life Function** | **Cell Organelle** | **Organ System** |
| Ingestion/Digestion |  |  |
| Waste Removal |  |  |
| Stimulus Response |  |  |
| Grow/Develop/Repair |  |  |
| Gas Exchange |  |  |
| Reproduction |  |  |
| Homeostasis |  |  |

**Human Body Systems:**

Circulatory

Digestive

Endocrine

Integumentary

Lymphatic

Muscular

Nervous

Reproductive

Respiratory

Skeletal

Urinary

Hierarchy of Life