

### THE INCREDIBLE CELL

We think we understand it, but the more we research into the cell—the less we find that we know. The amount of coded knowledge, practical technology, systems management, manufacturing specialties, storage, and maintenance that goes on every moment in a living cell is astounding. Yet it is only one-thousandth of an inch across.

**CELL MEMBRANE**—The outer covering which, in some way, decides what shall enter and leave the cell.

**RIBOSOMES**—Amino acids are assembled into proteins here.

**NUCLEUS**—This is the largest single part of the cell and contains the chromosomes and nucleolus. Enclosed within a double-membrane wall, the nucleus is the command and control center of the cell.

**CHROMOSOMES**—The master blueprint of the cell—the DNA—is located here.

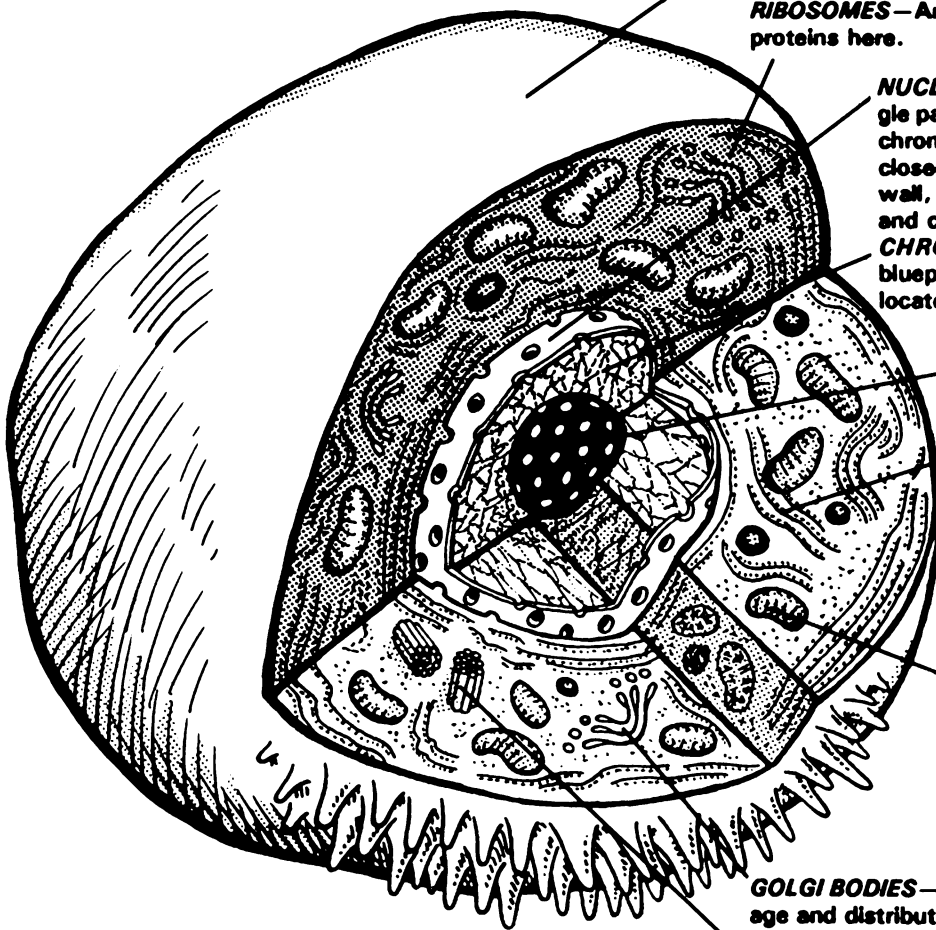
**NUCLEOLUS**—The crucially-needed ribosomes are assembled here.

**ENDOPLASMIC RETICULUM**—These are both protein storage warehouses and street boulevards for their transportation to other areas. Most of the protein-manufacturing ribosomes in the cell are attached to them.

**MITOCHONDRIA**—These bean-shaped bodies manufacture ATP, the storage batteries which provide electrical energy for the cell.

**GOLGI BODIES**—These curved "Q-tips" package and distribute proteins made elsewhere in the cell.

**CENTRIOLES**—Always located near the nucleus, the centrioles are vital to the cell division process.



### THE NERVE CELL

