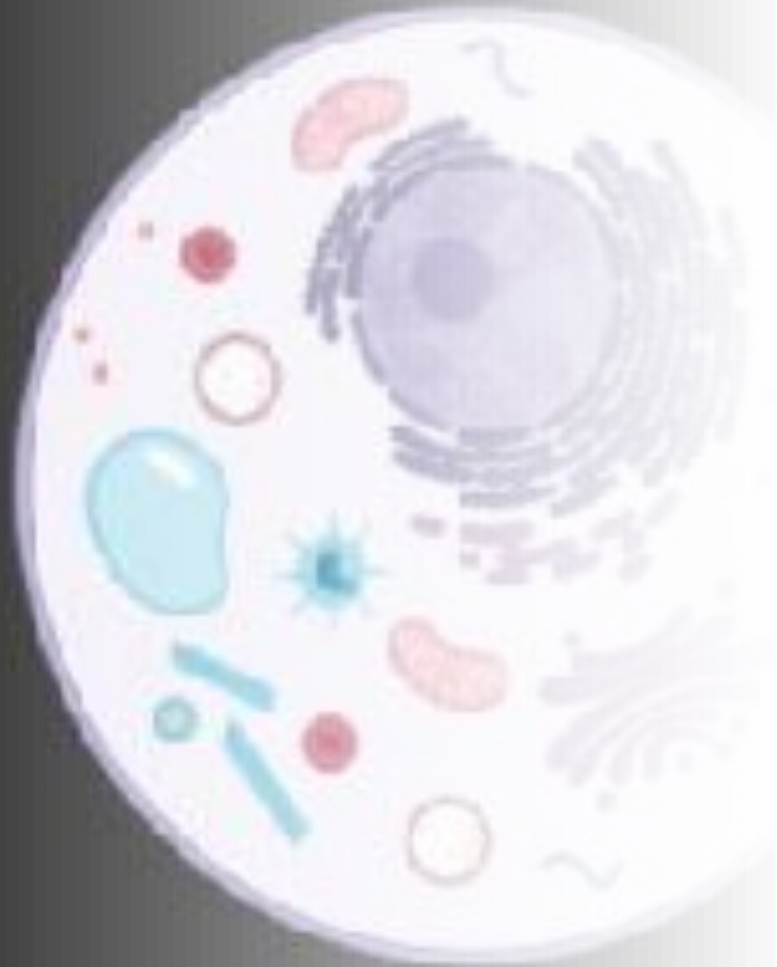


PROKARIOTI



VS

EUCARIOTI



—
**THE STRUCTURAL
ORGANIZATION OF
THE CELL**

CELL THEORY

Schwann's cell theory was formulated in 1839 together with Schleiden.



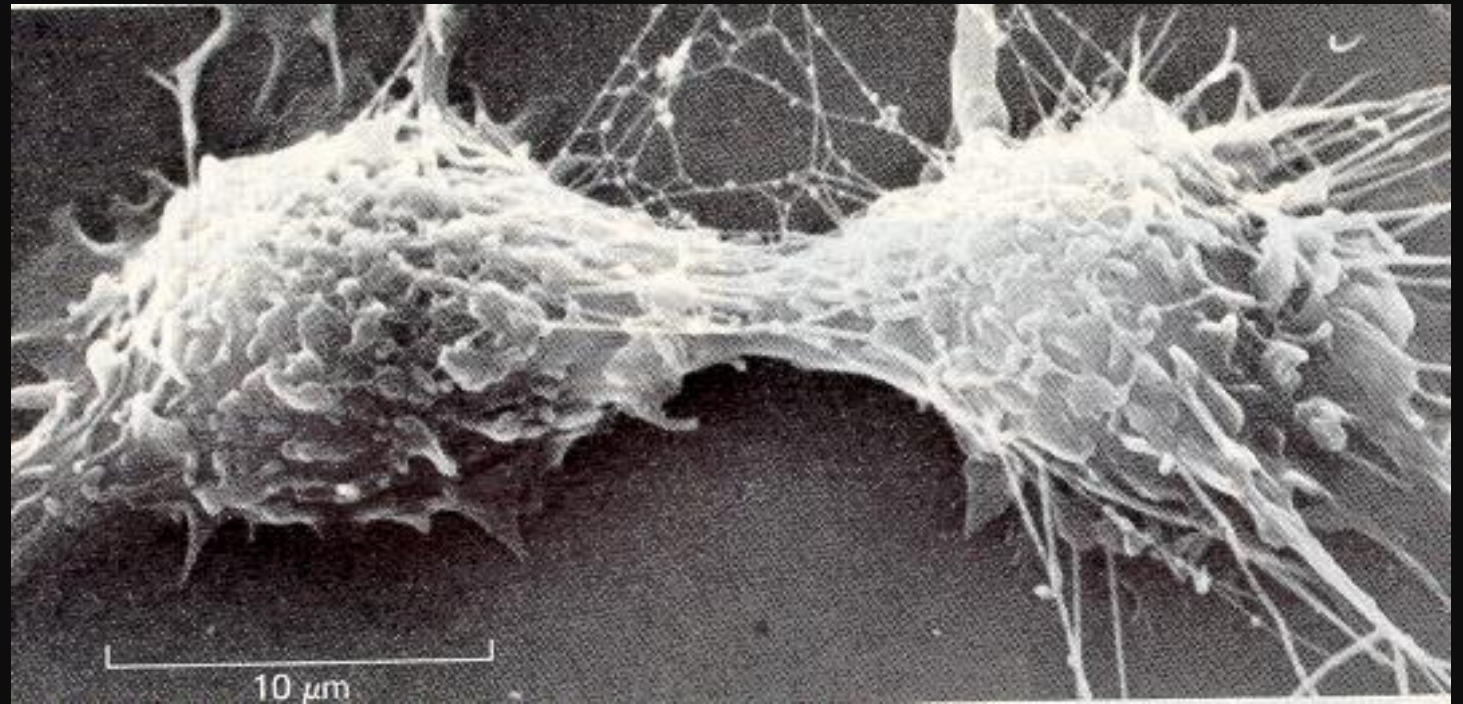
OMNIS CELLULA E CELLULA



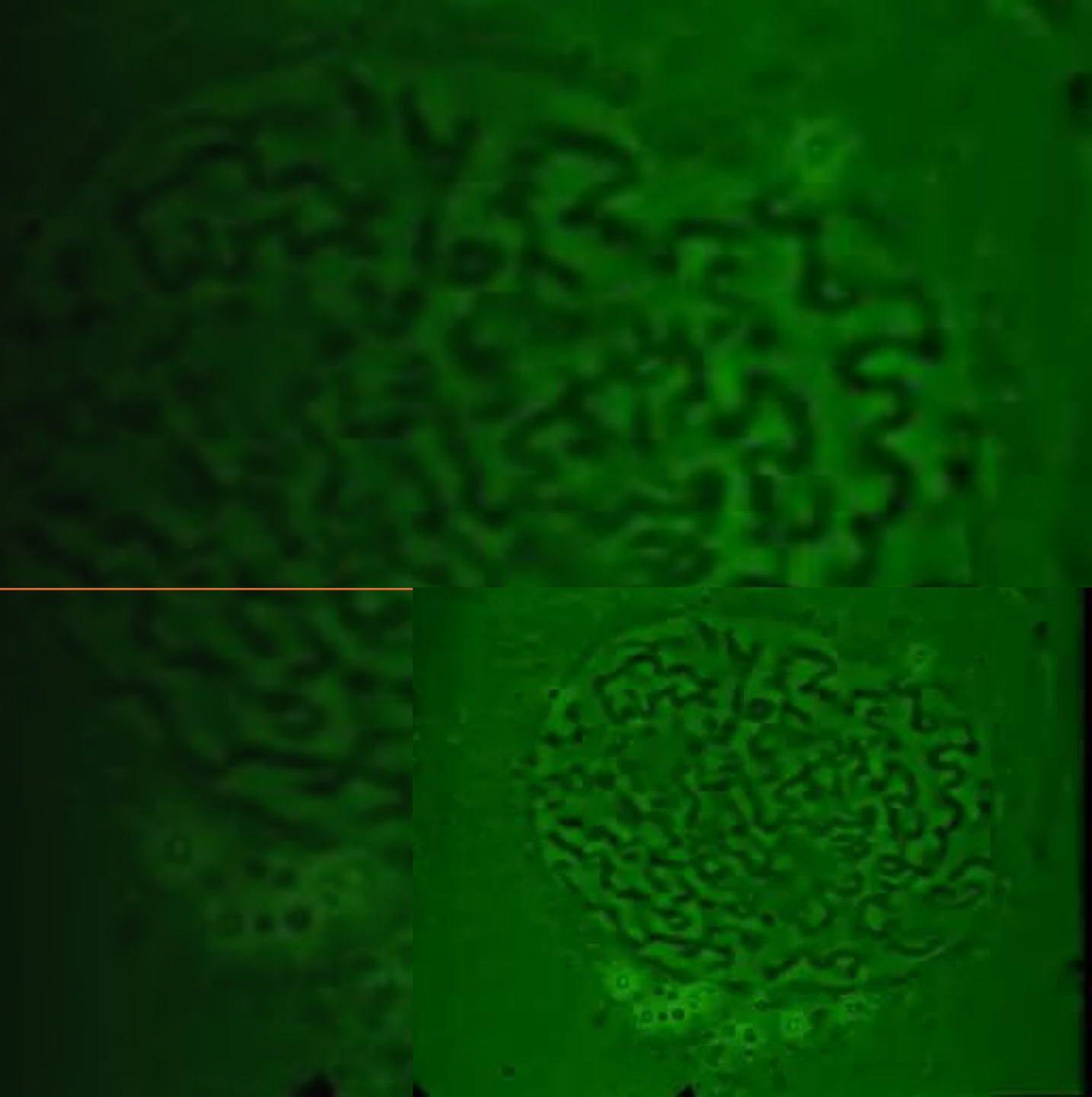
All cells derive from
pre-existing cells.



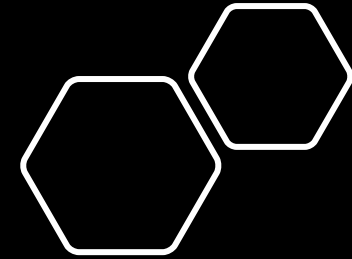
CELL DIVISION



CELL DIVISION

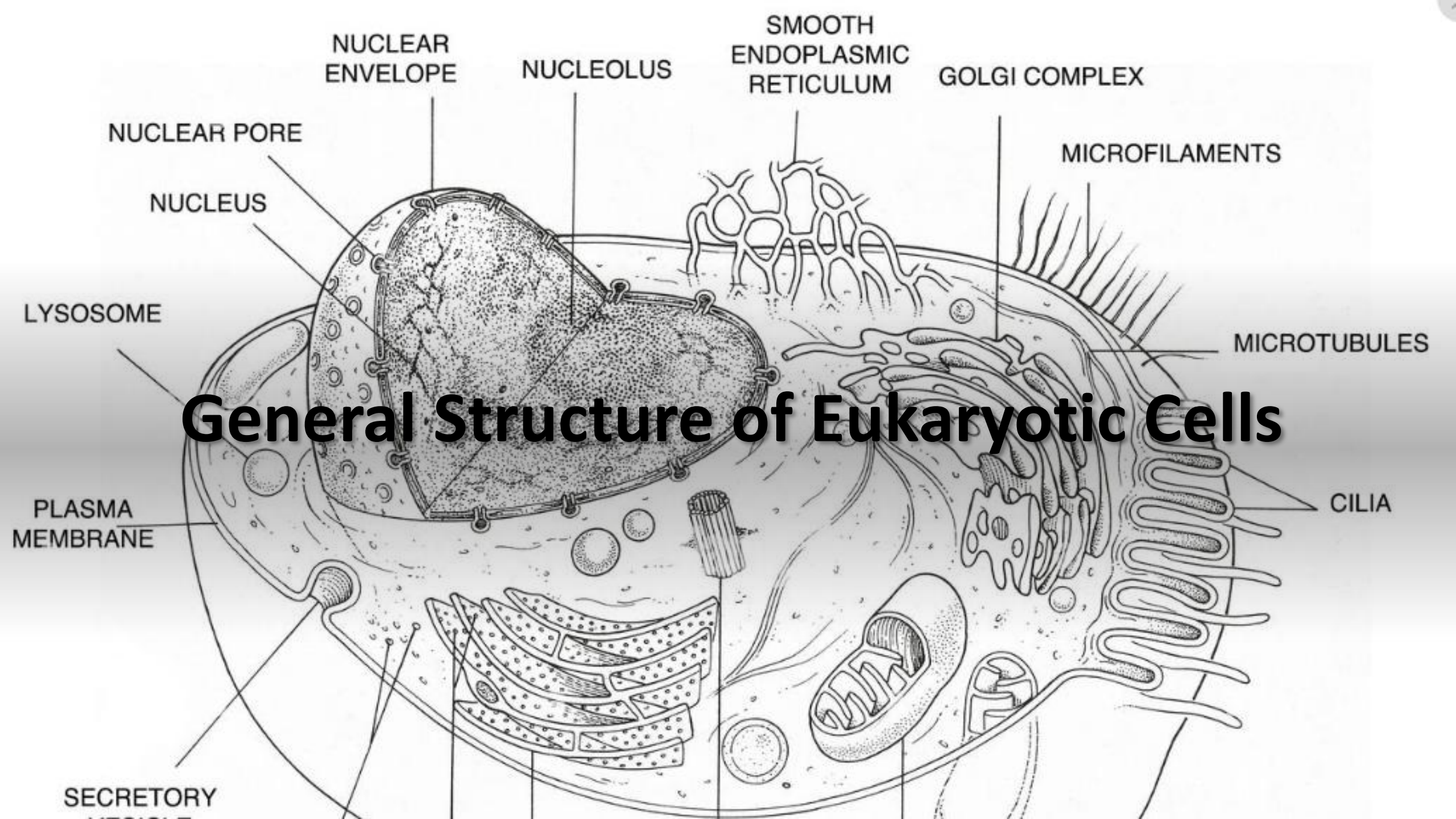


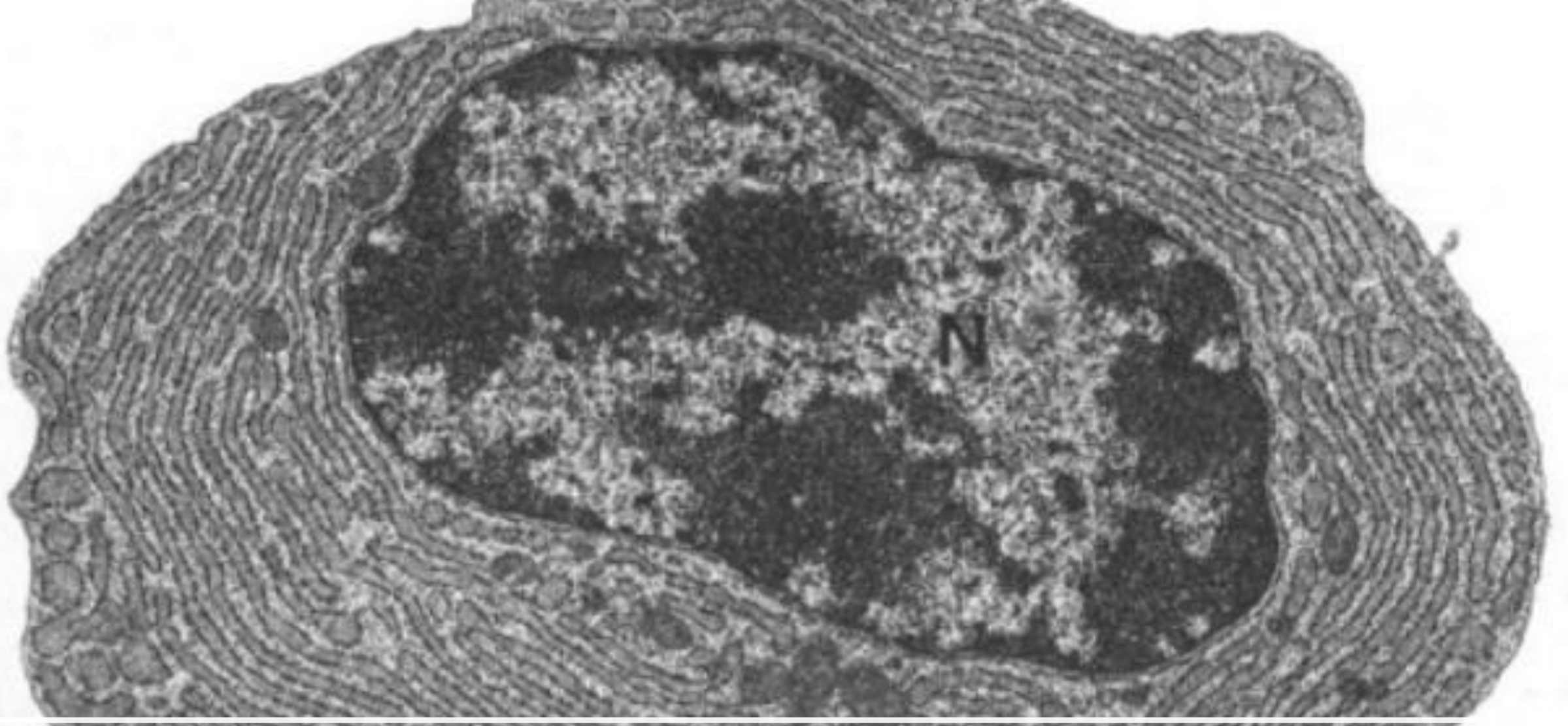
GENERAL STRUCTURE OF PROKARYOTIC CELLS



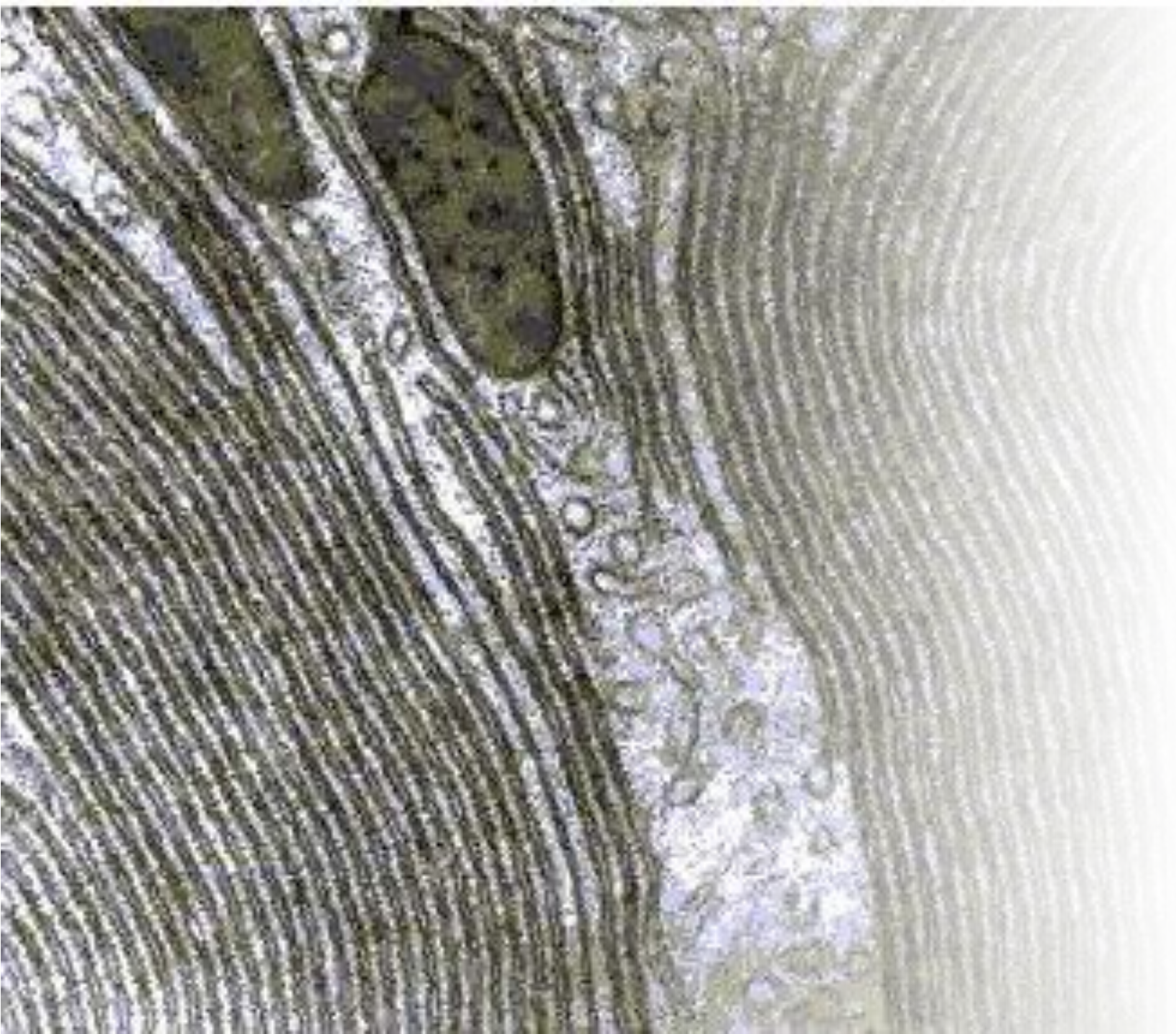
Gram-negative bacterium Escherichia coli

General Structure of Eukaryotic Cells





NUCLEUS AND DNA



**THE ENDOMEMBRANE SYSTEM
OR
THE VACUOLAR SYSTEM OF THE
CYTOPLASM**



Structural Organization of the Cell
Prokaryotic vs Eukaryotic



vibrio x76000.



Structural organization reflects functional complexity.