

Eukaryotic Cells

Chapter 4a

A. Overview

I. External Structures

A. Flagella & Cilia

II. Glycocalyx

III. Cell wall

IV. Cell Membrane

V. Internal Structures

A. Cytoplasm

1. cytosol

B. Organelles

C. Nucleus

1. nuclear envelope

a. nuclear pores

2. nucleolus

3. histones

4. chromatin

D. Endoplasmic Reticulum

1. rough ER

a. ribosomes

2. smooth ER

E. Vesicles

F. Golgi complex

G. Lysosomes

H. Vacuoles

I. Mitochondria

1. cristae

2. matrix

J. Chloroplasts

K. Endosymbiotic theory

L. Peroxisomes

M. Cytoskeleton

N. Centrosome

a. pericentriolar material

b. centrioles