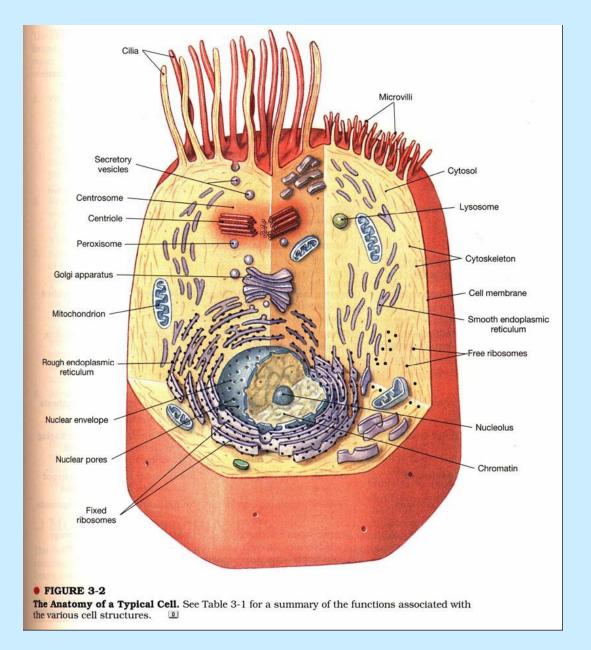
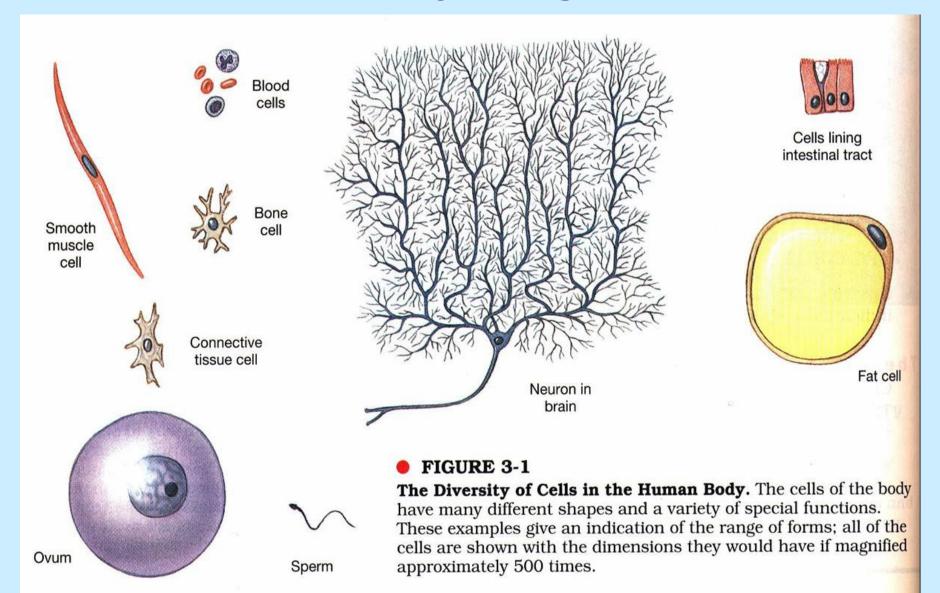
LA CELLULA EUCARIOTICA

Struttura e funzione

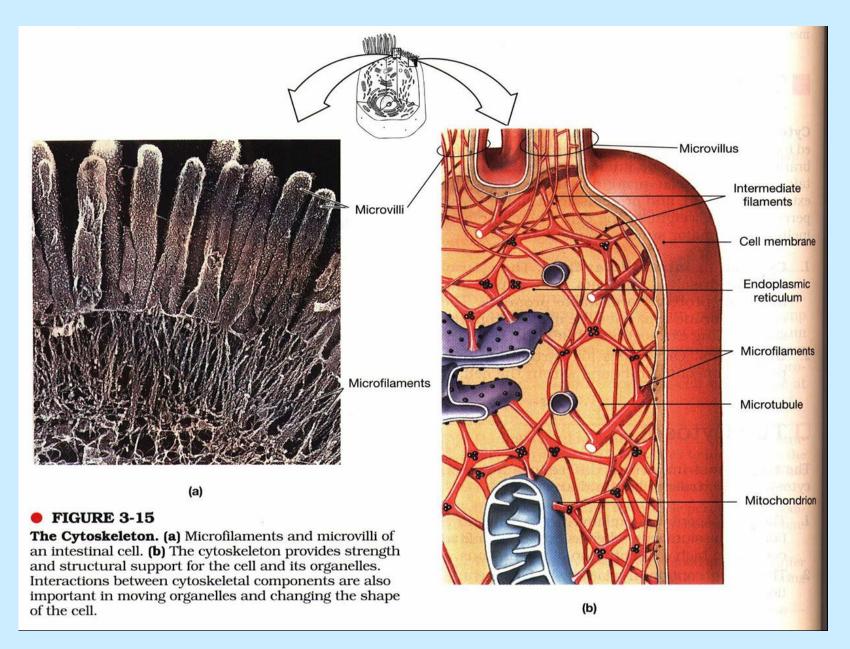
MORFOLOGIA E FUNZIONE



TIPI DI CELLULE



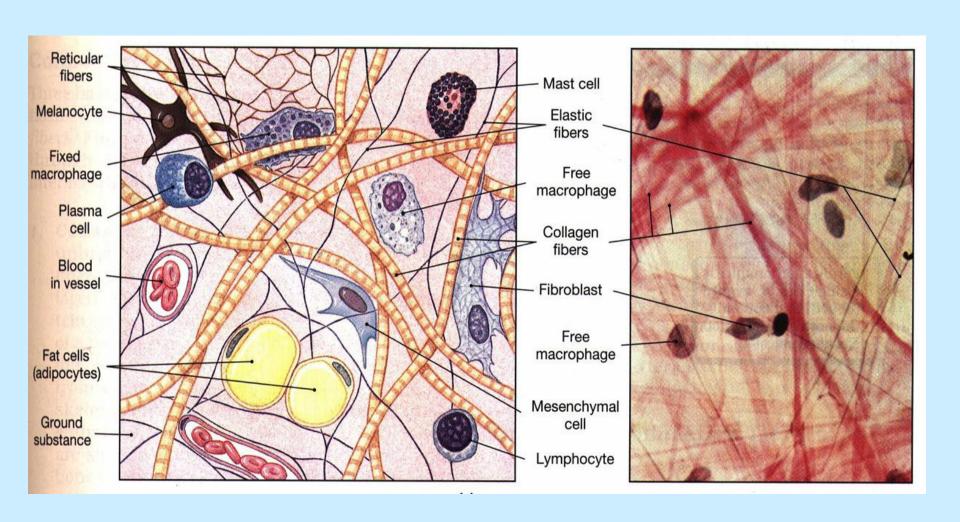
IL CITOSCHELETRO



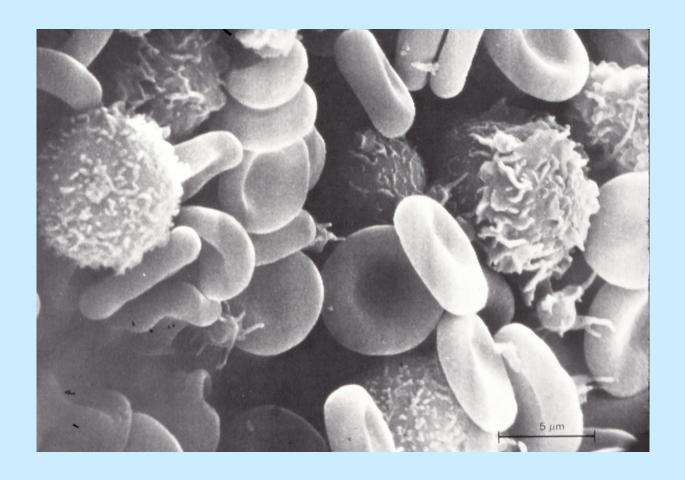
ORGANELLI

Appearance	Structure	Composition	Function
1	— CELL MEMBRANE	Lipid bilayer, containing phospholipids, steroids, and proteins	Isolation, protection, sensitivity, support; controls entrance/exit of materials
	CYTOSOL	Fluid component of cytoplasm	Distributes materials by diffusion
	NONMEMBRANOUS ORGANELLES	pulled in the signal to	
	Cytoskeleton: Microtubule Microfilament	Proteins organized in fine filaments or slender tubes	Strength, movement of cellular structures and materials
MANAMANA	Microvilli	Membrane extensions containing microfilaments	Increase surface area to facilitate absorption of extracellular materials
MMM	Cilia	Membrane extensions containing 9 microtubule doublets + a central pair	Movement of materials over surface
entrioles	Centrosome	Cytoplasm containing two centrioles, at right angles: Each centriole is composed of 9 microtubule triplets	Essential for movement of chromosomes during cell division; organization of microtubules in cytoskeleton
	Ribosomes	RNA + proteins; fixed ribosomes bound to endo- plasmic reticulum, free ribo- somes scattered in cytoplasm	Protein synthesis
	MEMBRANOUS ORGANELLES		
	Mitochondria	Double membrane, with inner folds (cristae) enclosing important metabolic enzymes	Produce 95% of the ATP required by the cell
	Endoplasmic reticulum (ER)	Network of membranous channels extending throughout the cytoplasm	Synthesis of secretory products; intracellular storage and transport
1/9/2	Rough ER	Has ribosomes attached to membranes	Secretory protein synthesis
il off	Smooth ER	Lacks attached ribosomes	Lipid and carbohydrate synthesis
	Golgi apparatus	Stacks of flattened membranes (saccules) containing chambers (cisternae)	Storage, alteration, and packaging of secretory products and lysosomes
	Lysosomes	Vesicles containing powerful digestive enzymes	Intracellular removal of damaged organelles or of pathogens
•	Peroxisomes	Vesicles containing degradative enzymes	Neutralization of toxic compound
X	NUCLEUS	Nucleoplasm containing nucleotides, enzymes, and nucleoproteins; surrounded by double membrane (nuclear envelope)	Control of metabolism; storage and processing of genetic information; control of protein synthesis
	Nucleolus	Dense region in nucleoplasm containing DNA and RNA	Site of rRNA synthesis and assembly of ribosomal subunits

TESSUTO CONNETTIVO



CELLULE DEL SANGUE



Cellule viste al microscopio a scansione, sono visibili eritrociti (dischetti biconcavi) e globuli bianchi