

READING ASSIGNMENT ON CYTOSKELETON

network

cytoplasm

microfilaments (S)

intermediate filaments (M)

microtubules (L)

solid

actin

MF-based movement: muscle contraction; amoeboid movement – *Amoeba*, white blood cells; division of cytoplasm during cell division (see figure 8.7A) in animal cells

fibrous

reinforce

nucleus is held in place by a surrounding cage of intermediate filaments

hollow

tubulin

tracks

lysosome moving toward a food vacuole

swimming sperm cells or free-living protozoa (like *Paramecium* we viewed in lab or observed in video footage)

cilia on surface of cells of lining the human windpipe sweep mucus (and trapped debris) away from lungs

cilia: shorter, numerous, oaring movement

flagella: longer. few. whipping motion

9

2

plasma or cell membrane

basal body

triplets

intermediate filaments

microtubules

microfilaments

} could be reversed (MFs listed first and MTs second)

microtubules

microfilaments

microtubule