A.P. BIOLOGY

CHAPTER 6 IMPORTANT POINTS

* Microscope types and why/how we choose (Fig.6.2)
* Cell fractionation is how we isolate & study organelles (Fig.6.5)
* Prokaryote versus eukaryote cells
* Plant versus animal cells (Fig. 6.9)
* Why cells are always small (Fig. 6.7)
* Plasma membrane in detail (structure;function) (Fig. 6.8)
* All organelles and internal cell components (structure:function)
* Nucleus in eukaryotic cells contain genetic instructions carried out by the ribosomes!!!!!! (Fig. 6.10, 6.11)
* Endomembrane system: component structures & functions (Fig.6.16)
  + ER (smooth)
  + ER (rough)
  + Golgi
  + Lysosome
  + Vacuole
* Phagocytosis versus autophagy (Fig. 6.14)
* Mitochondria compared to chloroplasts (Fig. 6.17, 6.18)
* Peroxisome (Fig. 6.19)
* Cytoskeleton structure & function (Table 6.1, Fig. 6.22, 6.24)
* Cell walls (Fig. 6.28)
* ECM (Fig. 6.29)
* Intercellular Junctions ( plants versus animals) (Fig. 6.30, 6.31)