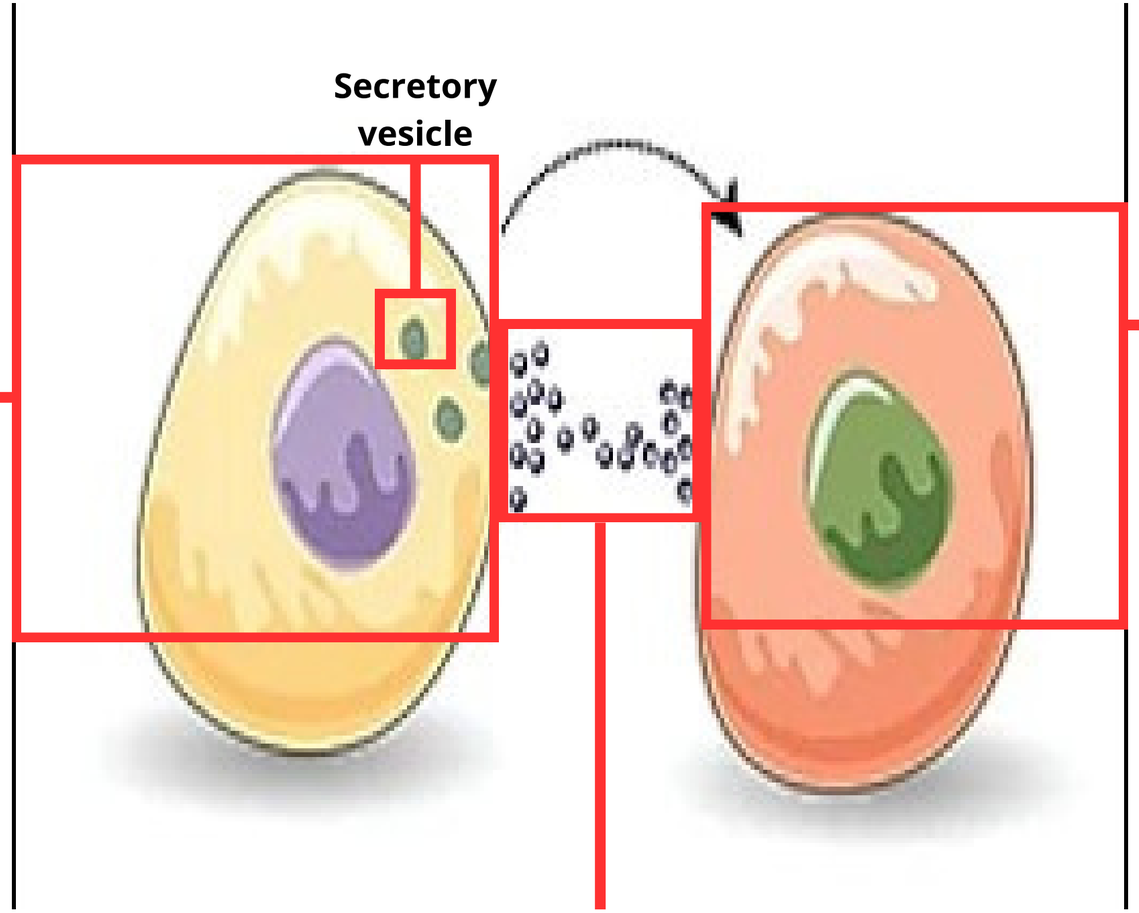
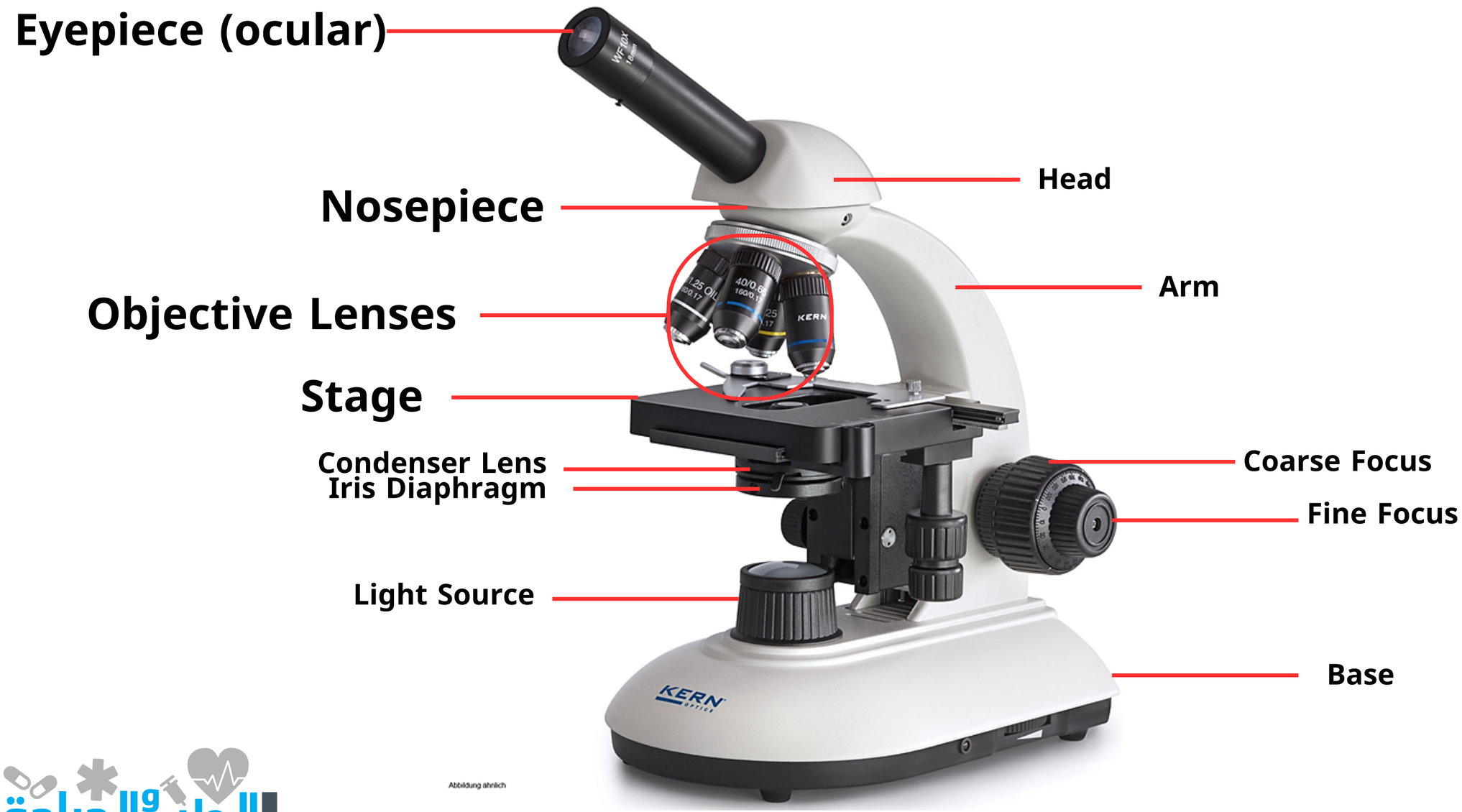
CELL BIO DIAGRAM SOLVED

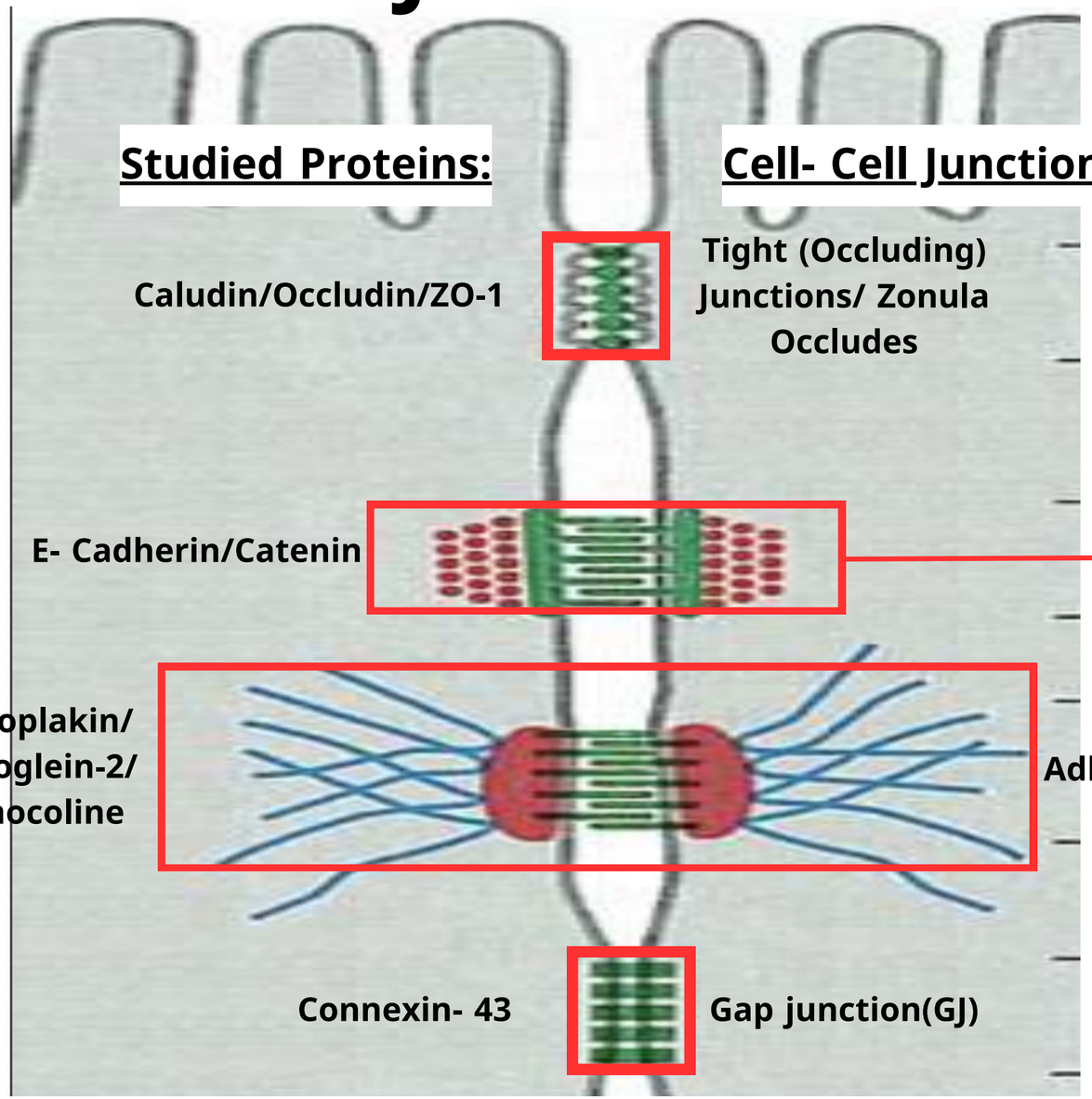
Paracrine Signaling
(a type of local or short distance signaling)



Monocular Light Microscope



Cell Junctions



Studied Proteins:

Cell- Cell Junctions:

Caludin/Occludin/ZO-1

Tight (Occluding) Junctions/ Zonula Occludes

E- Cadherin/Catenin

Adherens Junction/ Adhesion Belt/Zonula Adherns

Desmoplakin/ Desmoglein-2/ Desmocoline

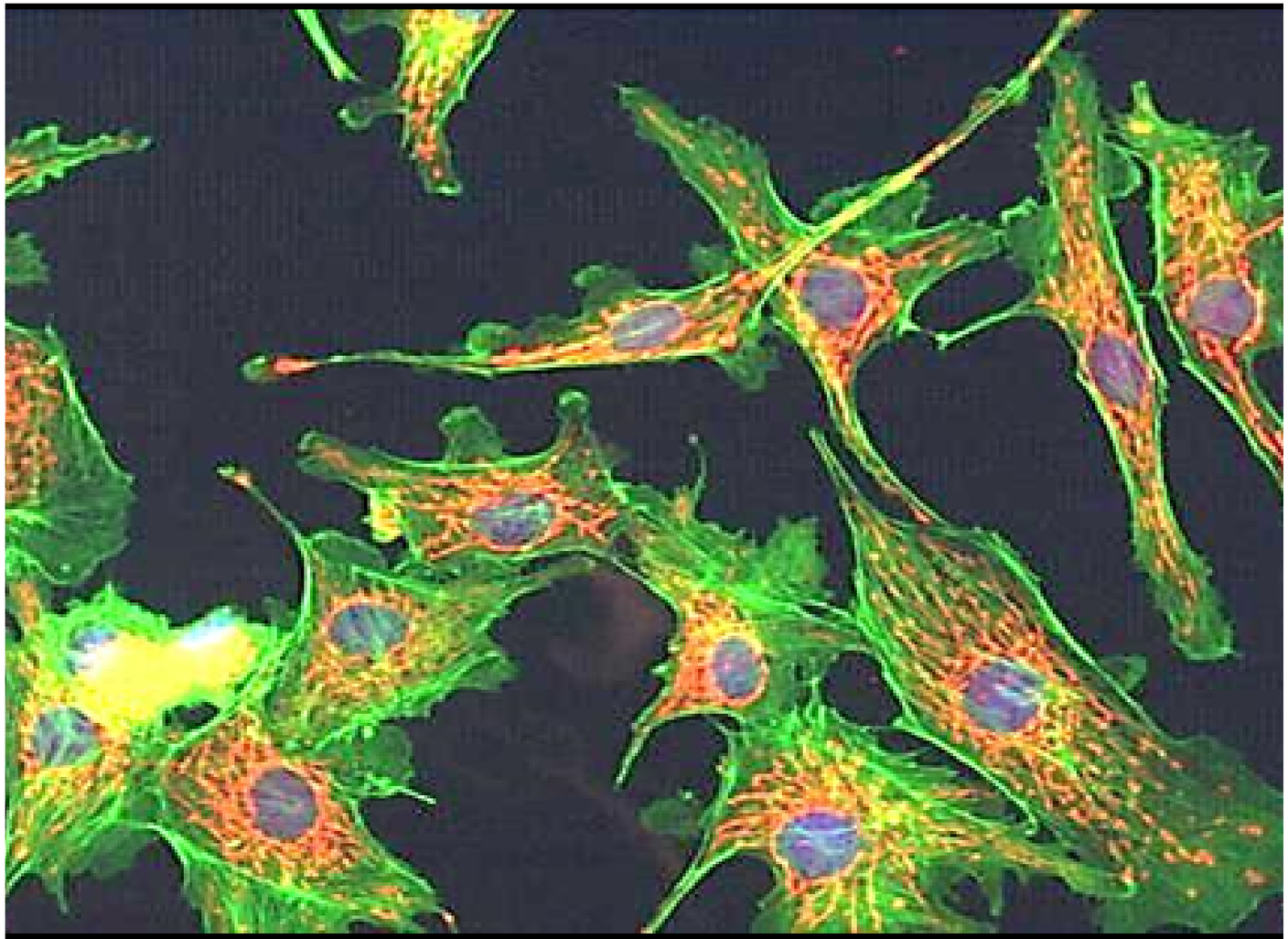
Macular Adherens/Desmosome

Cell- Cell Anchoring Junctions

Connexin- 43

Gap junction(GJ)

Fluorescence Microscopy + Immunohisotochemisty (immunohistochemical stains, IHC)

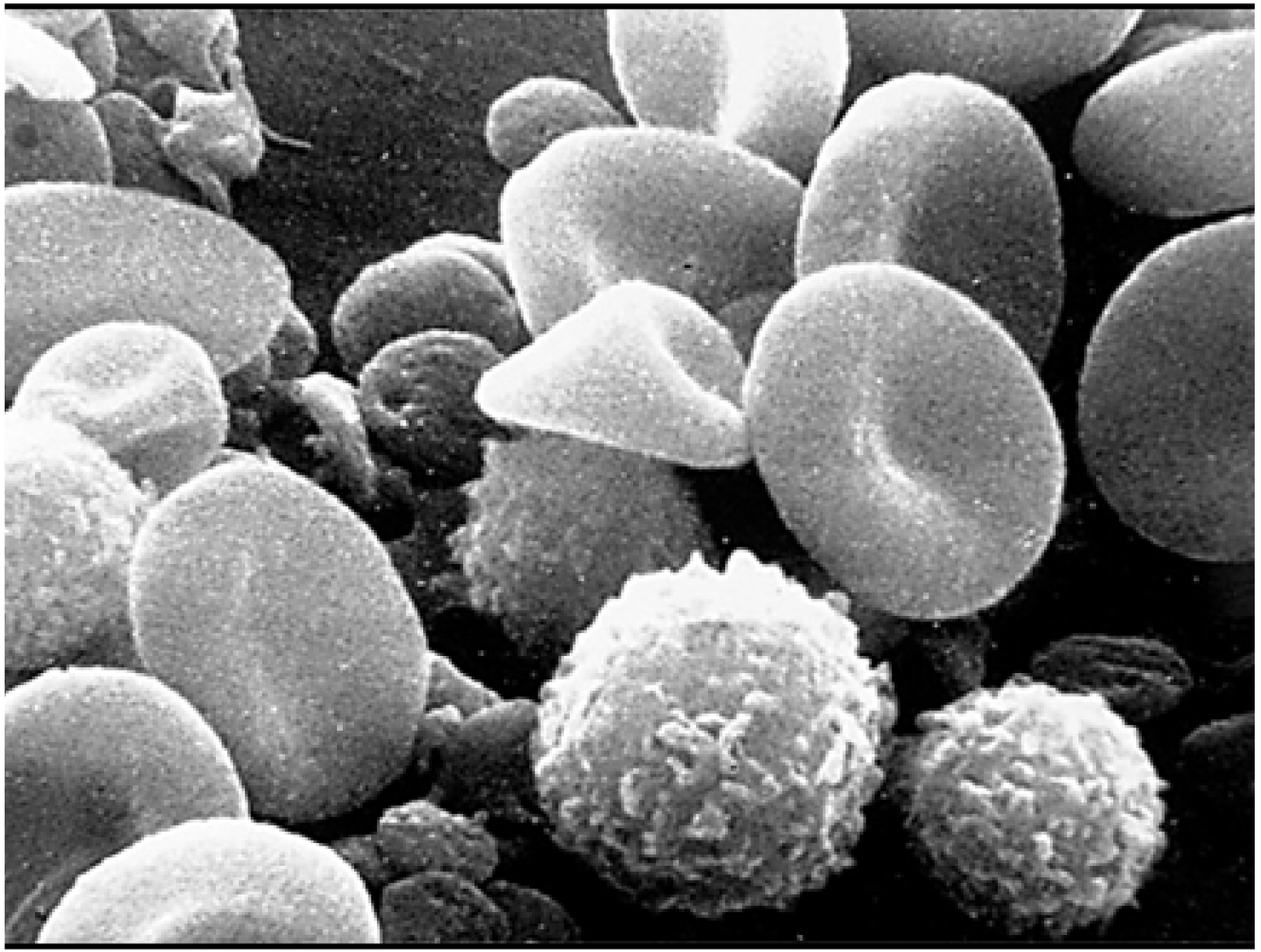


Transmission Electron Microscopy (TEM)

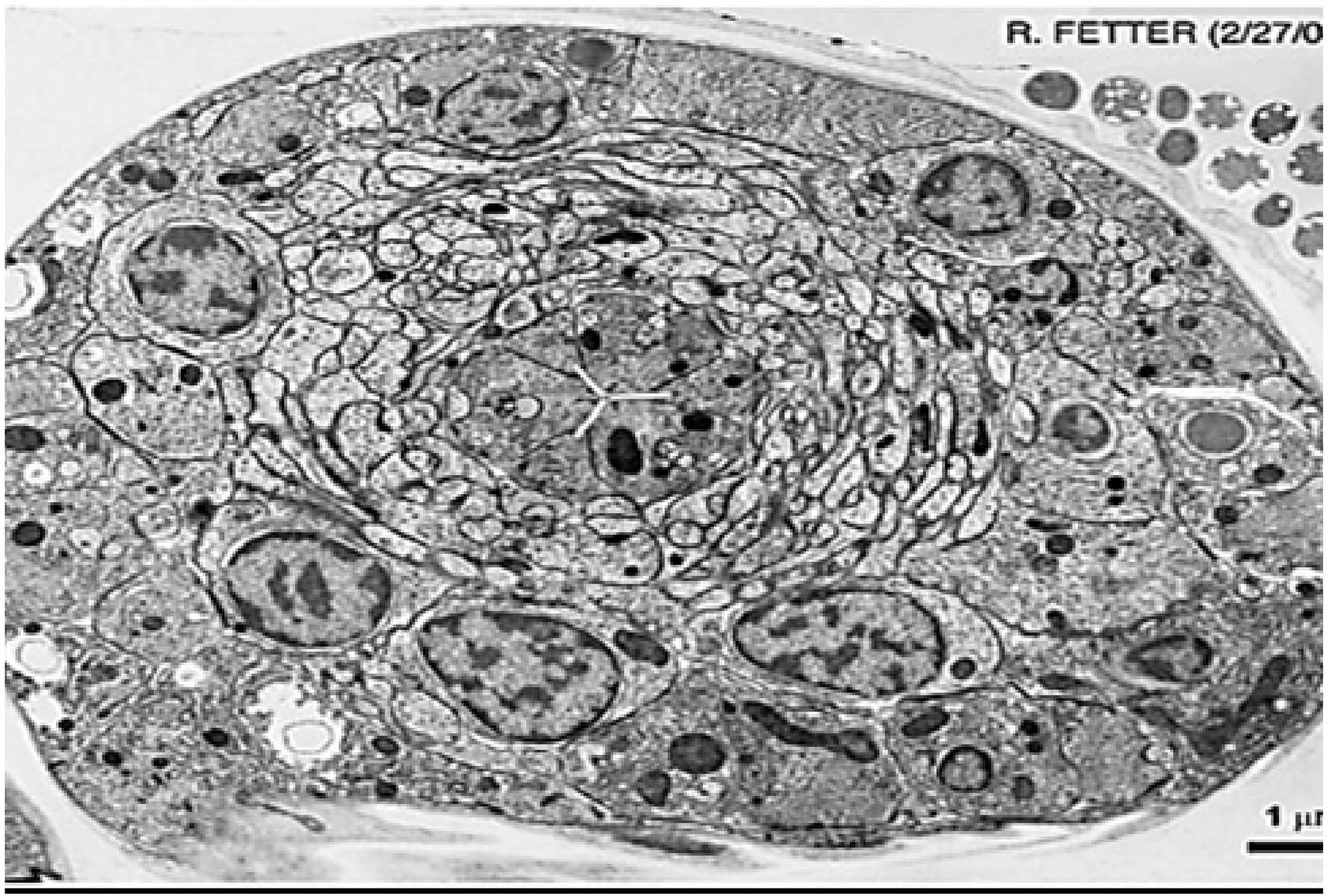
The image appears on screen plate which glows when being hit by electrons

• Images can be detected as:
Light areas (electron lucent)
& dark areas (electron dense)
Corresponding to areas through which electrons readily passed

Scanning EM SEM

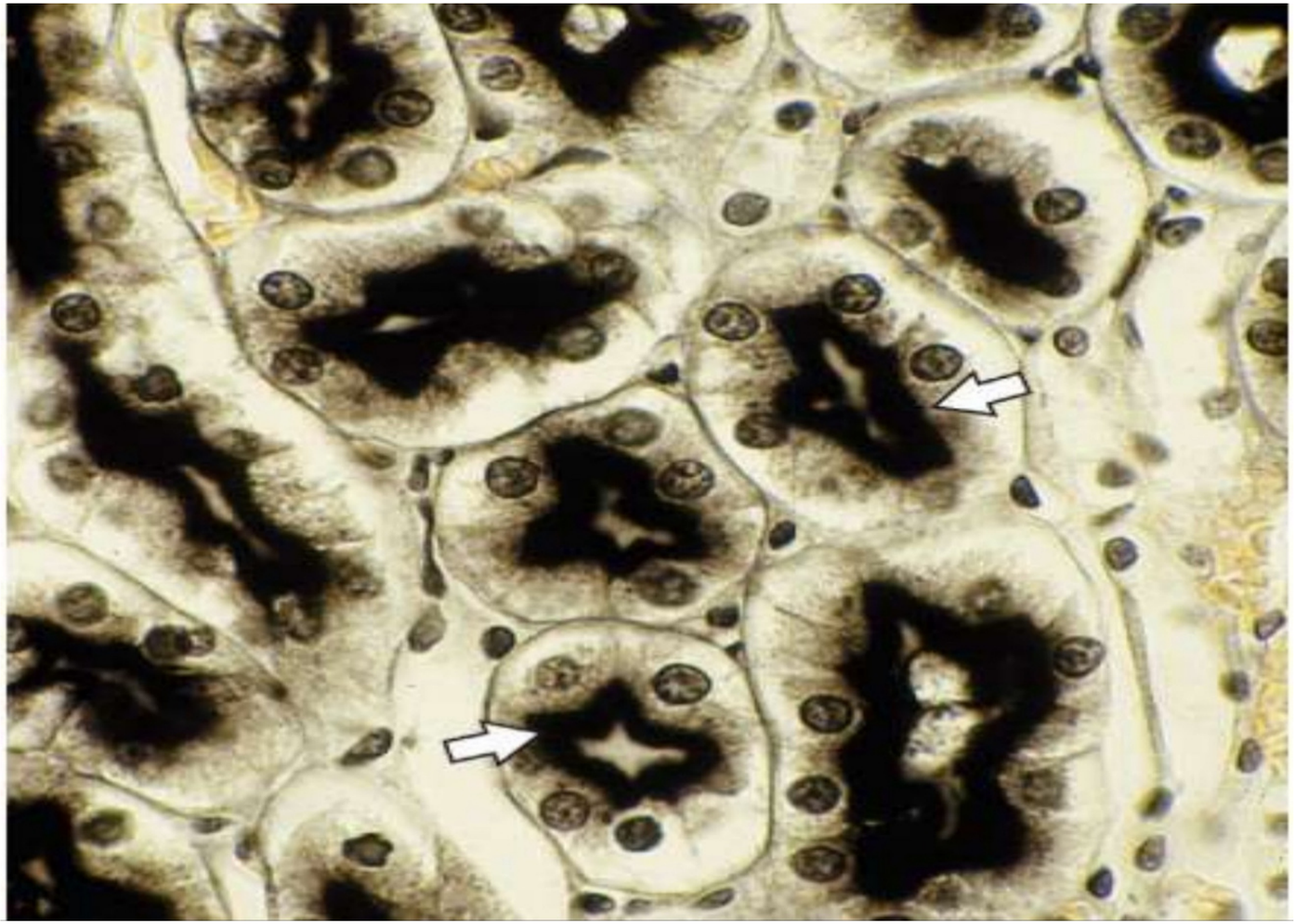


Transmission EM (TEM)

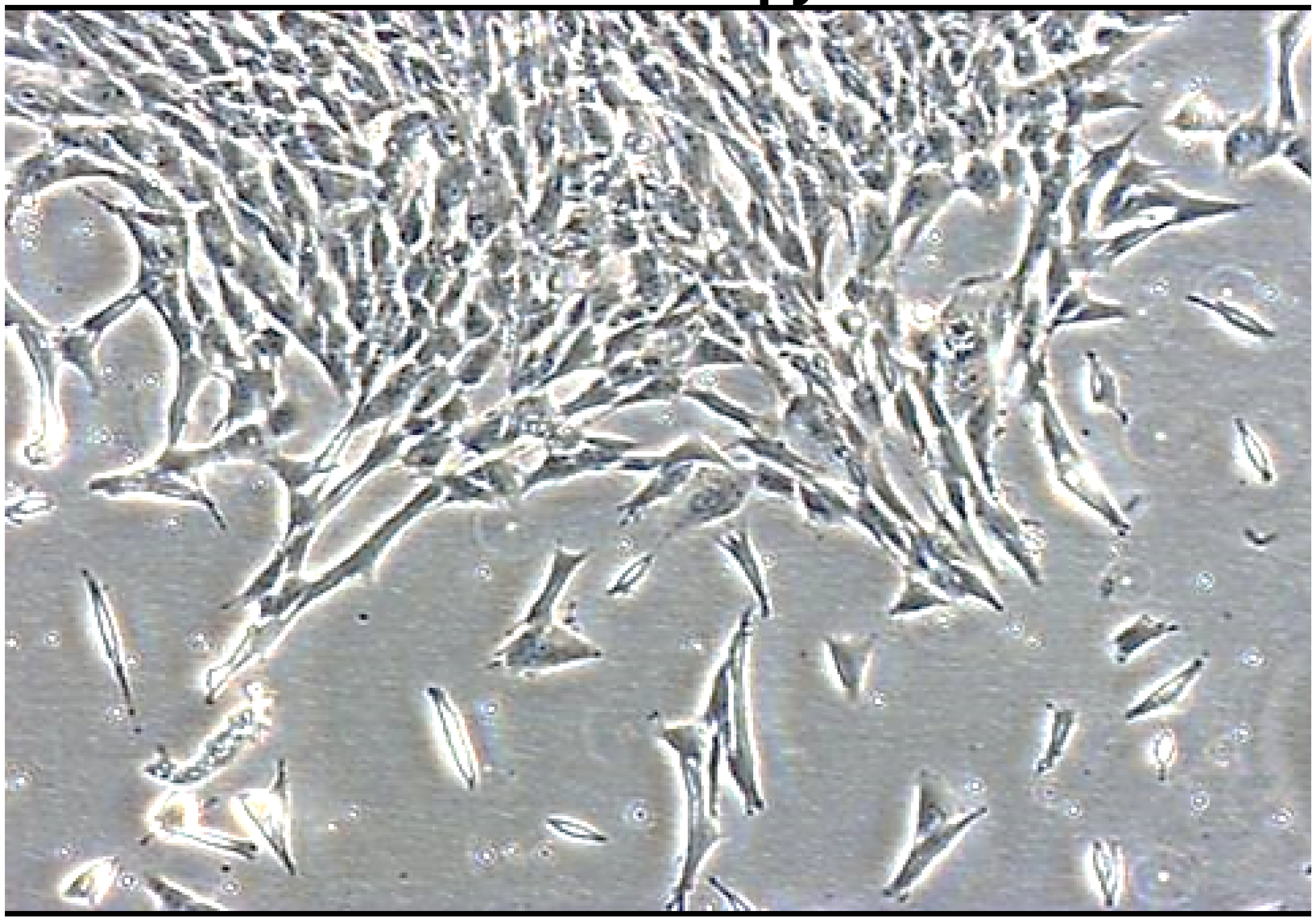


Histochemistry
(Alkaline phosphatase enzyme)
(this enzyme removes phosphate group from protein

Using light microscope



Cell Culture Phase Contrast Microscopy



Phase contrast microscope