**Items to Identify: Nucleus and Mitosis**

**Slides to Identify:**

* Slide 102: Mitosis
  + Cell division- differentiate mitotic from interphase cells
  + Identify examples of the four stages of mitosis: prophase, metaphase, anaphase, telophase
* Slide 148: Ileum
  + Interphase nuclei, nucleoli, heterochromatin
  + Mitotic figures in crypts of Lieberkühn (base of intestinal villi)
* Slide 152: Duodenum
  + Interphase nuclei, nucleoli, heterochromatin
  + Mitotic figures in crypts of Lieberkühn (base of intestinal villi)
* Slide 158: Pancreas
  + Interphase nuclei, nucleoli, heterochromatin
* Slide 401: Cells in culture treated with colchicine or cytochalasin
  + Multiple nuclei of various sizes, lack of microtubules, colchicine treatment
* Slide 32409: Rat intestine (toluidine blue)
  + Mitotic activity, mitochondria, cytoplasm, metaphase plate
* Slide HISTO01: Plant cell
  + Cell cycle phases

**EM’s to Identify**

* EM 2b: Liver cell nuclear pores
  + Nuclear pores
* EM 5: Liver (nucleus)
  + Golgi complex, mitochondria, lysosomes, RER, SER, ribosomes, glycogen
  + Nucleus, nuclear envelope (inner and outer membranes), perinuclear cisterna, nuclear pores, septum, fibrous lamina
* EM 6: Lymphocyte (nucleus)
  + Nuclear pores, nuclear envelope, inner and outer nuclear membrane
* EM 10f: Arteriolar wall
  + Nuclear pores, heterochromatin, nuclear envelope
* EM 15: Stomach (parietal cell)
  + Nuclei, nucleoli
* EM 19c: Sertoli cell
  + Nuclear pores
  + Synaptonemal complexes