**Items to Identify: Hematopoiesis and Stem Cells**

**Slides to Identify**

* Slide 110: Peripheral blood smear (Leishman-Giemsa)
	+ Neutrophils, eosinophils, red blood cells, platelets
* Slide 112: Red bone marrow smear (May-Grunwald-Giemsa) & Slide HISTO022(40) & 022(60)
	+ Identify stages of erythropoiesis
		- Pronormoblast, basophilic normoblast, polychromatophilic normoblast, orthochromatic normoblast, reticulocyte
	+ Identify stages of granulopoiesis
		- Promyelocyte, myelocyte, metamyelocyte, band/stab cell
		- Neutrophil series, eosinophil series, basophil series (do not attempt to identify)
* Slide 113: Peripheral blood smear (May-Grunwald-Giemsa)
	+ Red blood cells, platelets, monocytes, lymphocytes, neutrophils
* Slide 220: Fetal finger
	+ Megakaryocyte
* Slide 420: Rib
	+ Megakaryocyte
* Slide 421: Tibia, fetal
	+ Arterioles, sinusoids, hematopoietic cells, megakaryocytes
* Slide 19761: Bone marrow
	+ Medullary cavity with bone marrow between bony trabeculae
* Slide 32583: Rat bone/ bone marrow (toluidine blue) & Slide HISTO017: Bone marrow in bone
	+ Megakaryocyte
	+ Osteoclasts, cartilage, bone, bone marrow, blood vessel
	+ Nucleus, nucleolus, granules, megakaryocyte, orthochromatic normoblast, neutrophils, red blood cells

**EMs to Identify**

* EM 8a: Bone Marrow X13,200
	+ Orthochromatic normoblast, reticulocyte, mature erythrocyte, nurse cell
	+ Myelocyte
* EM 12a: Bone Marrow X13,200
	+ Normoblasts, macrophage nurse cell
* EM 12b: Bone Marrow X26,000
	+ Developing granulocytes