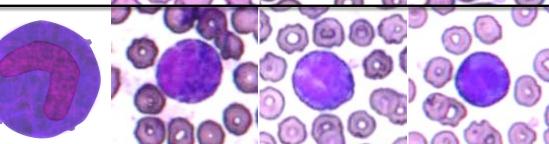
Field Guide – www.monkeyhealthexplorer.org Neutrophil Most common (40-60%)* Cytoplasm – Light pinkish with small granules, occasional vacuole. *Nucleus* – Dark purple with multiple connected shapes. 2-3x larger than RBC shaped nucleus Lymphocyte Common (20-40%)* Cytoplasm - Light (typically bluish), clear with no granules. Nucleus – Dark purple, rounded, fills up most of cell. Stain variation can give Less-common Nucleus slightly larger than RBC pinker cytoplasm flower-like nucleus Monocyte Less common (2-8%)* Cytoplasm - Light (typically bluish), clear, no granules, some vacuoles. Nucleus - Dark purple, irregularly-shaped, (Some C or Bean-shaped). Stain variation can give 2-3x larger than RBC pinker cytoplasm Eosinophil Less common (1-4%)* Cytoplasm – Darker red or purplish with medium-sized granules. Nucleus – Dark purple with 2-3 round, connected shapes. 2-3x larger than RBC The variation in Basophil coloring is due to

Rare (<1%)*

Cytoplasm – Filled with large, dark purple granules.

Nucleus – Dark purple, bean-shaped, mostly hidden by granules.

2-3x larger than RBC



changes in staining

All images are from

*% range for humans

Updated 4/2024 MB

our project slides.

methods.

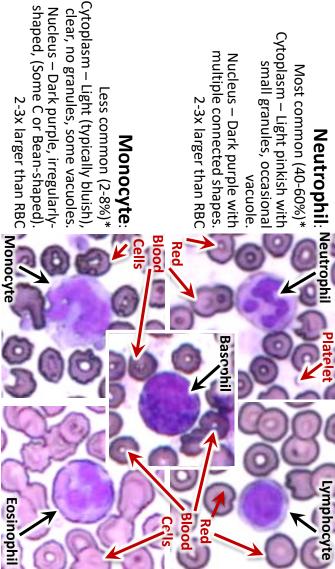
Field Guide – www.monkeyhealthexplorer.org

Neutrophil: Neutrophi

Cytoplasm – Light pinkish with small granules, occasional Most common (40-60%)* vacuole

multiple connected shapes. Nucleus – Dark purple with

2-3x larger than RBC



Lymphocyte

bluish), clear with no granules. rounded, fills up most of cell. Nucleus – Dark purple, Cytoplasm – Light (typically Common (20-40%)* Nucleus slightly larger than RBC

Eosinophil

granules purplish with medium-sized Cytoplasm – Darker red or Less common (1-4%)*

3 round, connected shapes. Nucleus – Dark purple with 2-

2-3x larger than RBC

Basophil (center):

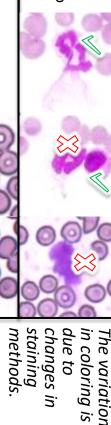
Nucleus – Dark purple, bean-shaped, mostly hidden by granules. Cytoplasm – Filled with large, dark purple granules. Rare (<1%)* 2-3x larger than RBC

for humans *% range

Not White Blood Cells

Burst Cells

Do not mark cells that have burst open, spilling their contents, unless they are still enough intact to clearly identify them.

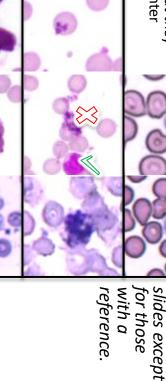


3

Platelets

don't have the distinctive dark nucleus surrounded by lighter Some platelets are large and can be about the size of a red blood cell. They can sometimes be mistaken for lymphocytes, but they cytoplasm and a cell membrane..

> are from our All images

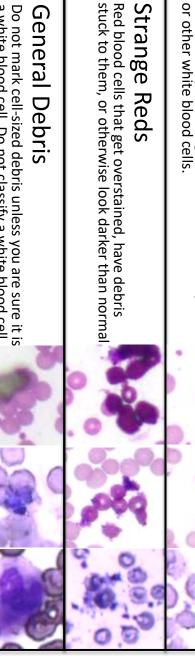


Cell Fakes

debris on top – making them look like neutrophils or other white blood cells. These are red blood cells with platelets or other

Strange

Reds



General Debris

a white blood cell. Do not classify a white blood cell if debris is blocking too much of it to identify it. Do not mark cell-sized debris unless you are sure it is

3/2024 MB Updated