

Lecture 3 - Leukopoiesis

OBJECTIVES

1. Describe the pathways and progenitor cells involved in the derivation of leukocytes from the hematopoietic stem cell to mature forms.
2. Name the different stages of neutrophil, eosinophil, and basophil development and describe the morphology of each stage.
3. Discuss the important functions of neutrophils, eosinophils, and basophils.
4. Describe the morphology of promonocytes, monocytes, macrophages, T and B lymphocytes, and immature B cells (hematogones).
5. Discuss the functions of monocytes, macrophages, T cells, B cells, and natural killer cells in the immune response.
6. Compare the kinetics of neutrophils and monocytes.
7. Discuss in general terms how the various types of lymphocytes are produced.