

Schalm's Veterinary Hematology, 6th Edition

Table of contents

Section I. Hematopoiesis.

CHAPTER 1. Embryonic and Fetal Hematopoiesis.

CHAPTER 2. Structure of Bone Marrow.

CHAPTER 3. Stem Cell Biology.

CHAPTER 4. Cluster of Differentiation (CD) Antigens.

CHAPTER 5. The Hematopoietic System.

CHAPTER 6. Erythropoiesis.

CHAPTER 7. Granulopoiesis.

CHAPTER 8. Monocyte and Dendritic Cell Production and Distribution.

CHAPTER 9. Thrombopoiesis.

CHAPTER 10. Lymphopoiesis.

CHAPTER 11. Vasculogenesis/Endothelial Progenitor Cells.

Section II. Hematotoxicity.

CHAPTER 12. Design and Methods Used for Preclinical Hematotoxicity Studies.

CHAPTER 13. Interpretation of Hematology Data in Preclinical Toxicological Studies.

CHAPTER 14. Preclinical Evaluation of Compound-Related Cytopenias.

CHAPTER 15. Preclinical Evaluation of Compound-Related Alterations in Hemostasis.

CHAPTER 16. Drug-induced Blood Cell Disorders.

CHAPTER 17. Myelonecrosis and Acute Inflammation.

CHAPTER 18. Chronic Inflammation and Secondary Myelofibrosis.

CHAPTER 19. Infectious Injury to Bone Marrow.

Section III. Erythrocytes.

CHAPTER 20. Erythrocyte Structure and Function.

CHAPTER 21. Erythrocyte Biochemistry.

CHAPTER 22. Erythrokinetics and Erythrocyte Destruction.

CHAPTER 23. Erythrocyte Morphology.

CHAPTER 24. Laboratory and Clinical Diagnosis of Anemia.

CHAPTER 25. Polycythemia.

Chapter 26. Iron and Copper Deficiency and Disorder of Iron Metabolism.

CHAPTER 27. The Prophyrias and Prophyrinurias.

CHAPTER 28. Erythrocyte Enzyme Abnormalities.

CHAPTER 29. Erythrocyte Membrane Defects.

Chapter 30. Congenital Dyserythropoiesis.

CHAPTER 31. Anemias Caused by Rickettsia and Protozoa.

CHAPTER 32. Anemia Associated with Bacteria and Viral Infections.

CHAPTER 33. Immune-mediated Anemia in the Dog.

CHAPTER 34. Immune-mediated Anemia in the Cat.

CHAPTER 35. Immune-mediated Anemias in Ruminants and Horses.

CHAPTER 36. Anemias Associated with Oxidative Injury.

CHAPTER 37. Anemia of Inflammatory, Neoplastic, Renal, and Endocrine Diseases.

CHAPTER 38. Pure Red Cell Aplasia.

CHAPTER 39. Aplastic Anemia.

Section IV. Leukocytes.

CHAPTER 40. Neutrophil Structure and Biochemistry.

CHAPTER 41. Neutrophil Distribution and Function.

CHAPTER 42. Neutrophil Function Disorders.

CHAPTER 43. Eosinophils and their Disorders.

CHAPTER 44. Basophils, Mast Cells and Their Disorders.

CHAPTER 45. Monocytes and Macrophages and Their Disorders.

CHAPTER 46. Interpretation of Ruminant Leukocyte Responses.

CHAPTER 47. Interpretation of Equine Leukocyte Responses.

CHAPTER 48. Interpretation of Canine Leukocyte Responses.

CHAPTER 49. Interpretation of Feline Leukocyte Responses.

CHAPTER 50. Determination and Interpretation of the Avian Leukogram.

CHAPTER 51. Biology of Lymphocytes and Plasma Cells.

CHAPTER 52. Structure, Function, and Disorders of Lymphoid Tissue.

CHAPTER 53. Disorders of the Spleen.

CHAPTER 54. Systemic Lupus Erythematosus.

CHAPTER 55. Feline Immunodeficiency Virus.

CHAPTER 56. T cell, Immunoglobulin, and Complement Immunodeficiency Disorders.

CHAPTER 57. Severe Combined Immunodeficiencies.

CHAPTER 58. Benign Lymphadenopathies.

Section V. Hematologic Neoplasia.

CHAPTER 59. Cell Cycle Control in Hematopoietic Cells.

CHAPTER 60. Epidemiology of Hematopoietic Neoplasia.

CHAPTER 61. Genetics of Hematopoietic Neoplasia.

CHAPTER 62. Transforming Retroviruses.

CHAPTER 63. Bone Marrow-derived Sarcomas.

CHAPTER 64. Classification of Lymphoma and Leukemia.

CHAPTER 65. General Features of Leukemia and Lymphoma.

CHAPTER 66. Myelodysplastic Syndromes.

CHAPTER 67. Acute Myeloid Leukemia.

CHAPTER 68. Mast Cell Cancer.

CHAPTER 69. B-cell Tumors.

CHAPTER 70. Plasma Cell Tumors.

CHAPTER 71. Hodgkin's Lymphoma.

CHAPTER 72. T cell Lymphoproliferative Diseases

CHAPTER 73. Histiocytic Proliferative Diseases.

CHAPTER 74. Gene Therapy.

Section VI. Platelets.

CHAPTER 75. Platelet Structure.

CHAPTER 76. Platelet Biochemistry Signal Transduction and Function.

CHAPTER 77. Platelet Kinetics and Laboratory Evaluation of Thrombocytopenia

CHAPTER 78. Immune-mediated Thrombocytopenia.

CHAPTER 79. Non-immune-mediated Thrombocytopenia.

CHAPTER 80. Essential Thrombocythemia and Reactive Thrombocytosis.

CHAPTER 81. von Willebrand Disease.

CHAPTER 82. Inherited Intrinsic Platelet Disorders.

CHAPTER 83. Acquired Platelet Dysfunction.

Section VII. Hemostasis.

CHAPTER 84. Overview of Hemostasis.

CHAPTER 85. Acquired Coagulopathies.

CHAPTER 86. Hereditary Coagulopathies.

CHAPTER 87. Thrombotic Disorders.

CHAPTER 88. Disseminated Intravascular Coagulation.

CHAPTER 89. Vascular Diseases.

CHAPTER 90. Treatment of Hemostatic Defects.

CHAPTER 91. Overview of Avian Hemostasis: 16 pages.

Section VIII. Transfusion Medicine.

CHAPTER 92. Erythrocyte Antigens and Blood Groups.

CHAPTER 93. Granulocyte and Platelet Antigens.

CHAPTER 94. Principles of Canine and Feline Blood Collection, Processing, and Storage.

CHAPTER 95. Red Blood Cell Transfusion in the Dog and Cat.

CHAPTER 96. Transfusion of Plasma Products.

CHAPTER 97. Platelet and Granulocyte Transfusion.

CHAPTER 98. Blood Transfusion in Large Animals.

CHAPTER 99. Blood Transfusion in Exotic Species.

CHAPTER 100. Transfusion Reactions.

CHAPTER 101. Major Histocompatibility Complex Antigens.

CHAPTER 102. Hematopoietic Stem Cell Transplantation.

CHAPTER 103. Clinical Use of Hemopoietic Growth Factors.

Section IX. Species Specific Hematology.

CHAPTER 104. Normal Hematology of the Dog.

CHAPTER 105. Normal Hematology of the Cat.

CHAPTER 106. Normal Hematology of the Horse.

CHAPTER 107. Normal Hematology of Cattle.

CHAPTER 108. Normal Hematology of Sheep, and Goats.

CHAPTER 109. Normal Hematology of the Pig.

CHAPTER 110. Hematology of Laboratory Animals.

CHAPTER 111. Hematology of Ferrets.

CHAPTER 112. Hematology of Guinea Pigs.

CHAPTER 113. Hematology of the Mongolian Gerbil.

CHAPTER 114. Hematology of the Syrian (Golden) Hamster.

CHAPTER 115. Hematology of Camelids.

CHAPTER 116. Hematology of Cervids.

CHAPTER 117. Hematology of Water Buffalo.

CHAPTER 118. Hematology of the American Bison.

CHAPTER 119. Hematology of Reindeer.

CHAPTER 120. Hematology of Elephants.

CHAPTER 121. Hematology of Marine Mammals.

CHAPTER 122. Hematology of Chickens and Turkeys.

CHAPTER 123. Hematology of Psittacines.

CHAPTER 124. Hematology of Waterfowl and Raptors.

CHAPTER 125. Hematology of Ratites.

CHAPTER 126. Hematology of Fish.

CHAPTER 127. Hematology of Reptiles.

CHAPTER 128. Hematology of Elasmobranchs.

Section X. Quality Control and Laboratory Techniques.

CHAPTER 129. Quality Control.

CHAPTER 130. Diagnostic Test Validation.

CHAPTER 131. Reference Intervals.

CHAPTER 132. Evaluation of Bone Marrow.

CHAPTER 133. Assays for Hematopoietic Precursor Cells.

CHAPTER 134. Radiolabeling and Scintigraphic Imaging of Platelets and Leukocytes.

CHAPTER 135. Automated Hematology Systems.

CHAPTER 136. Reticulocyte and Heinz Body Staining and Enumeration.

CHAPTER 137. Flow Cytometry.

CHAPTER 138. Laboratory Testing of Coagulation Disorders: 44 pages.

CHAPTER 139. Clinical Blood Typing and Crossmatching.

CHAPTER 140. Testing for Immune-mediated Hematologic Disease.

CHAPTER 141. Evaluation of Neutrophil Function.

CHAPTER 142. Evaluation of Platelet Function.

CHAPTER 143. Immunophenotyping and Determination of Clonality.

CHAPTER 144. Cytochemical Staining.

CHAPTER 145. Electrophoresis and Acute Phase Protein Measurement.

CHAPTER 146. Measurement of Serum Iron Concentration, TIBC, and Serum Ferritin Concentration.

CHAPTER 147. Molecular Techniques and Real time-PCR.

CHAPTER 148. Genetic Evaluation of Inherited and Acquired Hematologic Disease.

