## TABLE OF CONTENTS

Cover image

- Title page
- Table of Contents
- Copyright
- Contributors
- Dedication
- Preface
- Acknowledgments
- List of Tables
- List of Illustrations

### 1. Acquisition and management of cytologic specimens

- General sampling guidelines
- Diagnostic imaging-guided sample collection
- Managing the cytologic specimen
- Staining the specimen
- Submitting cytology specimens to a reference laboratory
- References

# • 2. General categories of cytologic interpretation

- Normal tissue
- Hyperplastic tissue
- Cystic mass
- Inflammation or cellular infiltrate
- Neoplasia
- Common cell relationships
- References

### 3. Integumentary system

- Normal histology
- Normal skin cytology and artifacts
- Noninfectious inflammatory disorders
- Infectious inflammatory disorders
- Non-neoplastic tumors
- Neoplastic tumors
- Response to tissue injury
- References

### 4. Hemolymphatic system

- General considerations for lymphoid tissues
- Lymph nodes
- Spleen
- Thymus
- References

# • 5. Respiratory system

- Nasal cavity
- Larynx

- Trachea, bronchi, and lungs
- References

### 6. Body cavity fluids

- Sample collection and technique
- Fluid sample handling
- Normal cytology and artifacts
- Cellular and fluid responses to injury
- Peritoneal effusions
- Pleural effusions
- Pericardial effusions
- Neoplastic effusions
- Bicavitary effusions
- Effusion ancillary diagnostics
- References

## • 7. Oral cavity, gastrointestinal tract, and associated structures

- Oral cavity
- Salivary gland
- Esophagus
- Gastrointestinal cytopathology
- Stomach
- Intestine
- Colon, cecal, and rectum
- References

### 8. Pancreas (exocrine and endocrine)

- Normal anatomy and histology
- Sample collection
- Normal cytology and artifacts
- Pancreatic cystic lesions
- Tissue injury (necrosis, mineralization)
- Pancreatic nodular hyperplasia
- Noninfectious inflammatory disorders
- Infectious inflammatory disorders
- Miscellaneous nonneoplastic tumors
- Neoplastic tumors
- References

### 9. Hepatobiliary system

- Sample collection and technique
- Normal cytology and artifacts
- Responses to tissue injury
- Inflammation and infection
- Neoplasia
- References

### 10. Fecal and rectal cytopathology

- Sample collection and processing
- Normal or incidental microscopic findings

- Abnormal microscopic findings
- Fecal leukocytes
- Other cell types
- References

### 11. Urinary system

- Kidneys
- Ureters
- Urinary bladder and urethra
- References

#### • 12. Urine

- Complete urinalysis
- Urine collection
- Specimen processing and slide preparation
- Microscopic examination and reporting
- References

### 13. Reproductive system

- Female reproductive system
- Male reproductive system
- References

### 14. Musculoskeletal system

- Normal joint anatomy and synovial fluid production
- Synovial fluid evaluation
- Skeletal muscle
- Bone
- References

### 15. Nervous system

- Cerebrospinal fluid
- Cytopathology of nervous system tissue
- References

## 16. Eyes and ears

- Eye and orbital structures
- Evelids
- Conjunctivae
- Nictitating membrane
- Sclera
- Cornea
- Iris, ciliary body, and aqueous humor
- Retina
- Choroid and vitreous body
- Orbital cavity
- Nasolacrimal apparatus
- Otic cytopathology
- External ear and pinna
- Middle ear

- Inner ear
- References

#### • 17. Endocrine and neuroendocrine systems

- Thyroid gland
- Parathyroid glands
- Extra-adrenal paragangliomas
- Adrenal gland
- Carcinoids
- Summary
- References

#### 18. Advanced diagnostic techniques

- Immunodiagnosis
- Electron microscopy
- Histochemical stains
- Flow cytometry
- Lymphocyte clonality testing
- Detection of translocations, chromosomal aberrations, and gene mutations
- References
- Appendix 1: Microscope and telecytopathology basics
- Appendix 2: Selected stains and protocols
- Appendix 3: Peculiar findings and polarizing materials
- Appendix 4: Mitotic figures and chromatin patterns
- Appendix 5: Advanced collection and preparation techniques
- Appendix 6: Composing pathology reports
- Appendix 7: Specialized diagnostic testing sites
- Appendix 8: Quick reference for morphologic features of microorganisms
- Appendix 9: Quality management recommendations for veterinary diagnostic cytopathology services
- Index.