Liquid-Based Techniques in Non-Gynecological Cytology
From Morphology to Molecular Methods

Editors
Adhemar Longatto-Filho, São Paulo/Braga
Kari J. Syrjänen, Turku
This monograph presents a detailed description of outstanding cytopathological lesions of the female genital tract. Twelve international experts in the cytopathology of glandular lesions cover the complete spectrum of this challenging subject.

Genital glandular lesions, both benign and malignant, are an appealing field of cytopathology. Malignant lesions of the endocervix and endometrium are becoming more common all over the world, compared to squamous cell carcinoma. In situ and invasive endocervical adenocarcinoma, endometrial adenocarcinoma and endometrial hyperplasias are presented in this book. Additionally, ovarian lesions focusing data obtained from detailed intraoperative studies and other areas of the genital tract, such as the vulva and fallopian tube, which are less known and thus have seen fewer publications, are also shown. The impact of the Bethesda System, as well as basic and ancillary techniques in the study of glandular lesions complete the monograph.

This book will be of great use to cytopathologists, pathologists and cytotechnologists and to students of these specialties as it deals with the most common areas of their daily work.

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This high-yield reference book focuses on the clinical, technical, and pathological aspects of endobronchial ultrasound-guided transbronchial needle aspiration (EBUS-TBNA). Its reviews cover all aspects of EBUS-TBNA, including the clinical perspective, technical aspects of the procedure, and cytomorphology of common and uncommon entities, as well as highlights diagnostic challenges. Each chapter features a multitude of full-color high-resolution images and includes key references to the current literature in the field. Additionally, reference tables and informative figures highlight the salient points. The book is unique in that it is written by experienced thoracic surgeons, pulmonary medicine physicians, and cytopathologists who use EBUS-TBNA in a large medical center.

This publication is of interest to individuals learning and practicing cytopathology, in addition to clinicians practicing pulmonary/thoracic medicine, and cytopathologists who use EBUS-TBNA in a large medical center. This publication is of interest to individuals learning and practicing cytopathology, in addition to clinicians practicing pulmonary/thoracic medicine, and cytopathologists who use EBUS-TBNA in a large medical center.

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The symptom of chronic constipation is often caused by a series of intestinal diseases, which can be reliably diagnosed histopathologically by histochemical techniques and consequently treated by surgical intervention. The following publication is the second and completely revised edition of Pathology of Chronic Constipation in Pediatric and Adult Coloproctology published in 2005, and introduces several new diseases and figures.

It includes characteristics of classical and ultrashort Hirschsprung’s disease as well as total intestinal aganglionosis and hypoganglionosis. New diseases such as intestinal neuronal dysplasia, desmosis coli, leiomyopathy, architectural malformation, and stretching lesions of muscularis propria are critically discussed. Atrophic desmosis is also covered. This new and frequently observed degeneration of muscularis propria in Crohn’s disease, sigmoid diverticulitis, and other inflammatory intestinal diseases causes focal aperistalsis, frequently interpreted as scar stenosis.

Histopathology of Chronic Constipation provides a comprehensive overview of intestinal alterations which cause chronic constipation. It is therefore of special interest to diagnostic pathologists, clinicians, pediatric and abdominal surgeons, coloproctologists, and gastroenterologists.

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Abbreviations
Offering an excellent balance of articles on both clinical cytology and cytopathology, *Acta Cytologica* furthers the understanding of cytopathologic processes and facilitates the translation of current research into clinical practice. As the official journal of the International Academy of Cytology and affiliated to over 50 cytology societies around the world, *Acta Cytologica* evaluates new and existing diagnostic applications of scientific advances as well as their clinical correlation. Original papers, review articles, case reports and letters to the editor cover topics from diagnostic cytopathology, gynecologic and nongynecologic cytopathology to fine-needle aspiration, molecular techniques and diagnostic methodologies. The perfect reference for practical use, *Acta Cytologica* addresses a multidisciplinary audience involved in the clinical practice of cytopathology, cell biology, oncology, interventional radiology, otorhinolaryngology, gastroenterology, urology, pulmonology and preventive medicine.

**The essential resource for today’s cytopathologist**

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**Selected contributions**

- Testing of Integrated Human Papillomavirus mRNA Decreases Colposcopy Referrals: Could a Change in Human Papillomavirus Detection Methodology Lead to More Cost-Effective Patient Care?  
  Sauter, J.L.; Mount, S.L.; St. John, T.L.; Wojewoda, C.M.; Bryant, R.J.; Leiman, G. (Burlington, Vt.)

- Insulin-Like Growth Factor-II mRNA-Binding Protein 3 Expression in Effusion Cytology: A Marker for Metastatic Adenocarcinoma Cells and a Potential Prognostic Indicator in Gastric Adenocarcinoma: Kim, H.J. (Gwangju); Kim, G.-E. (Namwon); Lee, J.S.; Lee, J.H.; Nam, J.H.; Choi, C. (Gwangju)

- Discriminating Analysis of Atypical Squamous Cells of Undetermined Significance of the Uterine Cervix Using Nuclear Three-Dimensional Analysis: Wasiya, K.; Nakamura, M.; Mizuki, Y. (Hirosaki); Motoi, M.; Kobayashi, T. (Fukuyama); Yoshioka, H.; Watanabe, J. (Hirosaki)


- Study of VSET1 Mutations in Patients with Keratoconus in Southwest Iran Using PCR Single-Strand Conformation Polymorphism/Heteroduplex Analysis and Sequencing Method: Dehkordi, F.A.; Shahrekordi; Rashki, A. (Zaboli); Bagheri, N. (Tehran); Chaleshtori, M.H.; (Isfahan); Memarzadeh, E.; Salehi, A.; Ghatreh, H. (Shahrekord); Zandi, F. (Sananda); Yazdanpanah, N. (Isfahan); Tabatabaiefar, M.A. (Ahvaz); Chaleshtori, M.H. (Shahrekord)

- Application of Chemokine CXC Motif Ligand 12 as a Novel Diagnostic Marker in Preoperative Fine-Needle Aspiration Biopsy for Papillary Thyroid Carcinoma: Jung, Y.Y.; Park, I.A.; Kim, M.A; Min, H.S.; Won, J.K.; Ryu, H.S. (Seoul)

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Liquid-Based Techniques in Non-Gynecological Cytology

From Morphology to Molecular Methods

This special topic issue of *Acta Cytologica* provides the reader with a comprehensive and critical overview of liquid-based cytology (LBC) applied to different non-gynecological samples and technical procedures. Non-gynecological LBC plays an increasingly important role in diagnostic cytopathology, since it has the potential for a similar or better diagnostic accuracy than conventional smears. The possibility of storing material which is useful for molecular procedures provides LBC with a great advantage that may be further exploited by next-generation sequencing technology. The articles in this issue discuss LBC as a reliable alternative tool to surgical or core needle biopsies in cancer diagnosis and prognosis and open up new prospects for cancer research. Further, this issue reflects on the potential applications of several molecular players as specific targets for personalized therapy.

*Liquid-Based Techniques in Non-Gynecological Cytology* is of special interest to pathologists, cytotechnicians and laboratory researchers.