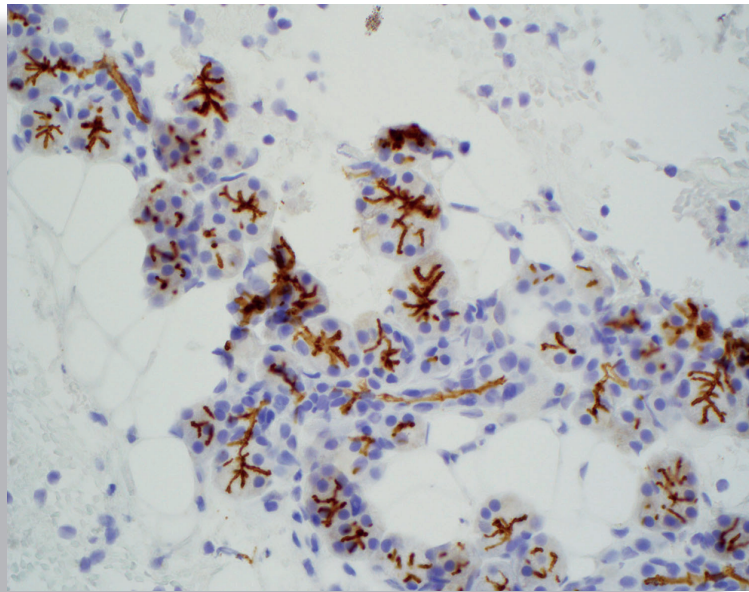




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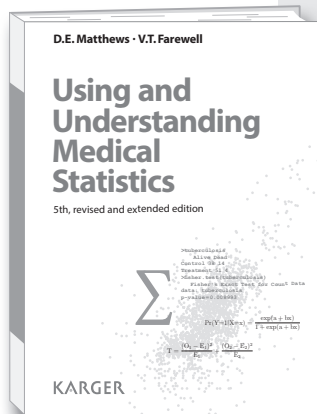
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The fifth revised edition of this highly successful book presents the most extensive enhancement since *Using and Understanding Medical Statistics* was first published 30 years ago. Without question, the single greatest change has been the inclusion of source code, together with selected output, for the award-winning, open-source, statistical package known as R. This innovation has enabled the authors to de-emphasize formulae and calculations, and let software do all of the 'heavy lifting'.

This edition also introduces readers to several graphical statistical tools, such as Q-Q plots to check normality, residual plots for multiple regression models, funnel plots to detect publication bias in a meta-analysis and Bland-Altman plots for assessing agreement in clinical measurements. New examples that better serve the expository goals have been added to a half-dozen chapters. In addition, there are new sections describing exact confidence bands for the Kaplan-Meier estimator, as well as negative binomial and zero-inflated Poisson regression models for over-dispersed count data.

The end result is not only an excellent introduction to medical statistics, but also an invaluable reference for every discerning reader of medical research literature.

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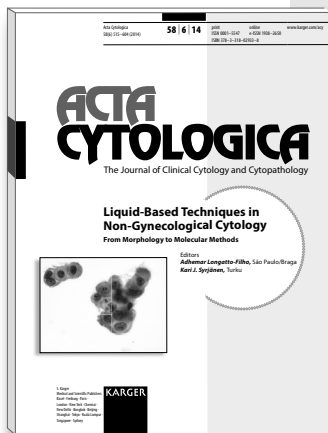
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Liquid-Based Techniques in Non-Gynecological Cytology

From Morphology to Molecular Methods

Editors
Adhemar Longatto-Filho
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Liquid-Based Techniques in Non-Gynecological Cytology

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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.

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This special topic issue on *Breast Translational Research* provides pertinent and succinct reviews on tumor microenvironment, metabolomics, the role of the calpain family of enzymes, the molecular mechanisms of lymphovascular invasion, and predictors of response to neoadjuvant therapy. It proposes and illustrates a new terminology for the practising pathologist who needs to describe a diagnostically challenging group of breast neoplasms showing dermal analogue differentiation. It also evaluates the role of p40 immunohistochemistry in diagnostic breast pathology.

This publication is of special interest to pathologists as well as scientists and members of the breast multidisciplinary team, since it provides a useful overview of pertinent markers and techniques in the field of breast cancer translational research and diagnostic histopathology.

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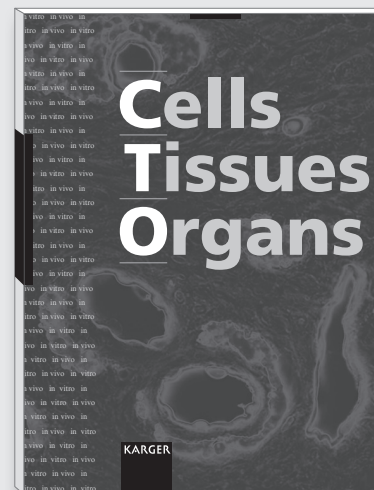
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