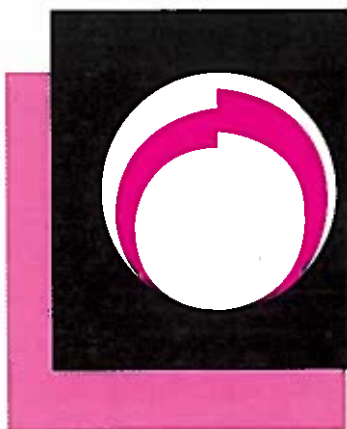


Robbin PATH BASIS DISE

5th Edition



DOCKET
A L A R M

Find authenticated court documents without watermarks at docketalarm.com.

To
Kerstin
To
Raminder
and to
Elly
with love

Contributors

Douglas C. Anthony, M.D., Ph.D.

Assistant Professor of Pathology, Harvard Medical School; Director of Neuropathology, The Children's Hospital; Neuropathologist, Brigham and Women's Hospital, Boston, Massachusetts

James M. Crawford, M.D., Ph.D.

Assistant Professor of Pathology, Harvard Medical School; Pathologist, Brigham and Women's Hospital, Boston, Massachusetts

Christopher P. Crum, M.D.

Associate Professor of Pathology, Harvard Medical School; Director, Division of Women's and Perinatal Pathology, Brigham and Women's Hospital, Boston, Massachusetts

Umberto De Girolami, M.D.

Associate Professor of Pathology, Harvard Medical School; Neuropathologist, Brigham and Women's Hospital and The Children's Hospital, Boston, Massachusetts

Matthew P. Frosch, M.D., Ph.D.

Instructor in Pathology, Harvard Medical School; Associate Pathologist, Brigham and Women's Hospital; Consultant in Pathology, Children's Hospital, Boston, Massachusetts

Lester Kobzik, M.D.

Assistant Professor, Harvard Medical School, Harvard School of Public Health; Pathologist, Brigham and Women's Hospital, Boston, Massachusetts

Martin C. Mihm, Jr., M.D.

Professor of Pathology and Chief of Dermatology and Dermatopathology, Albany Medical College, Albany, New York

George F. Murphy, M.D.

Herman Beerman Professor of Dermatology, Professor of Pathology, University of Pennsylvania School of Medicine; Director of Dermatopathology Training, Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania

Andrew E. Rosenberg, M.D.

Assistant Professor of Pathology, Harvard Medical School; Associate Pathologist, Massachusetts General Hospital, Boston, Massachusetts

John Samuelson, M.D., Ph.D.

Associate Professor, Department of Tropical Public Health, Harvard School of Public Health, Boston, Massachusetts

Frederick J. Schoen, M.D., Ph.D.

Associate Professor of Pathology, Lawrence J. Henderson Associate Professor of Health Sciences and Technology, Harvard Medical School; Vice-Chairman, Department of Pathology, Brigham and Women's Hospital, Boston, Massachusetts

Deborah Schofield, M.D.

Assistant Professor of Pathology, Harvard Medical School and The Children's Hospital, Boston, Massachusetts

Franz von Lichtenberg, M.D.

Professor of Pathology Emeritus, Harvard Medical School; Senior Pathologist, Brigham and Women's Hospital, Boston, Massachusetts

Preface

Once again, we are launching a new edition of this book—the fifth. In the five years since the previous edition, spectacular advances have been made in many areas of the science and practice of pathology—particularly in our understanding of the molecular and genetic origins of many diseases and in the application of modern techniques to diagnostic pathology. Although these have necessitated extensive revisions, our goals remain essentially the same.

- To integrate into the discussion of pathologic processes and disorders the newest established information available—morphologic, molecular, and genetic. This, we hope, will make the understanding of disease as up-to-date as possible and will facilitate the application of optimal diagnostic modalities and therapeutic interventions.
- To organize the presentations into logical and uniform approaches, thereby facilitating readability, comprehension, and learning.
- Not to permit the book to become larger and more cumbersome, and yet to provide adequate discussion of the significant lesions, processes, and disorders, allotting space in proportion to their clinical and biologic importance.
- To place great emphasis on clarity of writing and good usage of language in the recognition that struggling to comprehend is time-consuming and wearisome and gets in the way of the learning process.
- To make this first and foremost a student text (useful to students throughout their four years of medical school and into their residencies) but, at the same time, to provide sufficient detail and depth to meet the needs of more advanced readers.

We hope that we have, at least in some measure, achieved these goals; any shortcomings are surely not for lack of trying.

Although the newer body of knowledge has required extensive rewriting, the basic organization remains largely unchanged. The chapters on general principles and processes such as cell injury and inflammation are confined to the first third of the text, while the remainder of the book is

their quality, authenticity, and completeness. While most are recent—indeed some appeared in 1994, the year of publication of this text—older classics have been retained precisely because they are “classic.”

The same three authors of previous editions prepared most of the chapters themselves, but reviewed, edited, and critiqued all of them. They were measurably helped by the advice and reviews of many experts who were sought out to ensure the accuracy, completeness, and authenticity of areas of their expertise, as detailed in the acknowledgments section.

We hope that we have succeeded in transmitting to the readers of this text the beauty and excitement of our expanding knowledge of the nature of many diseases and have stimulated them to learn more about the pathologic basis of disease.

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.