

Contributors

CONSULTING EDITOR

JASON L. HORNICK, MD, PhD

Director of Surgical Pathology and Immunohistochemistry, Brigham and Women's Hospital, Professor of Pathology, Harvard Medical School, Boston, Massachusetts, USA

EDITOR

MING ZHOU, MD, PhD

Professor and Chair, Department of Anatomic and Clinical Pathology, Tufts University School of Medicine, Chair and Pathologist-in-Chief, Department of Pathology and Laboratory Medicine, Tufts Medical Center, Boston, Massachusetts, USA

AUTHORS

MAHMUT AKGUL, MD

Assistant Professor, Division Chief, Genitourinary Pathology, Department of Pathology and Laboratory Medicine, Albany Medical Health System, Albany, New York, USA

DILARA AKHOUNDOVA, MD

Department for BioMedical Research, University of Bern, Department of Medical Oncology, Inselspital, University Hospital of Bern, Bern, Switzerland

HIKMAT AL-AHMADIE, MD

Department of Pathology, Memorial Sloan Kettering Cancer Center, New York, New York, USA

KHALEEL I. AL-OBAIDY, MD

Department of Pathology and Laboratory Medicine, Henry Ford Health, Detroit, Michigan, USA

MAHUL AMIN, MD

Department of Pathology and Laboratory Medicine, University of Tennessee Health

Science, Memphis, Tennessee, USA; Department of Urology, Keck School of Medicine, University of Southern California, Los Angeles, California, USA

MANJU ARON, MD

Professor of Clinical Pathology and Urology, Departments of Pathology and Urology, Keck School of Medicine, University of Southern California, Los Angeles, California, USA

EZRA BARABAN, MD

Departments of Pathology, Urology, and Oncology, Johns Hopkins Medical Institutions, Baltimore, Maryland, USA

DANIEL M. BERNEY, FRCPath

Department of Cellular Pathology, Barts Health NHS Trust, Department of Molecular Oncology, Barts Health Cancer and Barts Health NHS Trust, London, United Kingdom

QI CAI, MD

Assistant Professor, Department of Pathology, The University of Texas Southwestern Medical Center, Dallas, Texas, USA

JIE-FU CHEN, MD

Department of Pathology, Memorial Sloan Kettering Cancer Center, New York, New York, USA

BENJAMIN L. COINER, MD

Vanderbilt University School of Medicine, Nashville, Tennessee, USA

EVA COMPÉRAT, MD

Department of Pathology, General Hospital of Vienna, Medical University of Vienna, Vienna, Austria; Department of Pathology, Sorbonne University, Assistance Publique-Hôpitaux de Paris, Hôpital Tenon, Paris, France

BOGDAN CZERNIAK, MD, PhD

Professor, Department of Pathology, The University of Texas MD Anderson Cancer Center, Houston, Texas, USA

ABHISHEK DASHORA, MD, FRCPath

Department of Cellular Pathology, Barts Health NHS Trust, London, United Kingdom

JONATHAN EPSTEIN, MD

Departments of Pathology, Urology, and Oncology, Johns Hopkins Medical Institutions, Baltimore, Maryland, USA

FELIX Y. FENG, MD

Department of Radiation Oncology, University of California, San Francisco, San Francisco, California, USA

JATIN S. GANDHI, MD

Assistant Professor, Department of Pathology and Laboratory Medicine, Emory University School of Medicine, Seattle, Washington, USA

JENNIFER B. GORDETSKY, MD

Department of Pathology, Microbiology, and Immunology, Vanderbilt University Medical Center, Vanderbilt University School of Medicine, Professor, Department of Urology, Vanderbilt University Medical Center, Nashville, Tennessee, USA

CHARLES C. GUO, MD

Professor, Department of Pathology, The University of Texas MD Anderson Cancer Center, Houston, Texas, USA

ONDREJ HES, MD, PhD

Department of Pathology, Charles University in Prague, Faculty of Medicine in Plzeň,

University Hospital Plzeň, Pilsen, Czech Republic

MUHAMMAD T. IDREES, MD

Department of Pathology, Indiana University School of Medicine, Indianapolis, Indiana, USA

MARTIN J. MAGERS, MD

IHA Pathology and Laboratory Medicine, Ann Arbor, Michigan, USA

MEHDI MANSOOR, MD, FRCPC

Department of Pathology and Laboratory Medicine, Cumming School of Medicine, University of Calgary, Rockyview General Hospital, Calgary, Alberta, Canada

SAMBIT K. MOHANTY, MD

Director of Surgical and Molecular Pathology, Surgical and Molecular Pathology, CORE Diagnostics (India), Advanced Medical Research Institute, Gurugram, Haryana, India

ANDRÉ OSZWALD, MD

Department of Pathology, General Hospital of Vienna, Medical University of Vienna, Vienna, Austria

ANIL V. PARWANI, MD, PhD, MBA

Professor of Pathology and Biomedical Informatics, Vice Chair and Director of Anatomic Pathology, Director of the Digital Pathology Shared Resource, Department of Pathology, The Ohio State University Wexner Medical Center, Cooperative Human Tissue Network (CHTN) Midwestern Division, Columbus, Ohio, USA

ANKUSH URESH PATEL, MBBCh, BAO, LRCP & SI

Research Fellow, Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, Minnesota, USA

COLIN C. PRITCHARD, MD, PhD

Department of Laboratory Medicine and Pathology, University of Washington, Seattle, Washington, USA

SOROUGH RAIS-BAHRAMI, MD

Department of Urology, Department of Radiology, O'Neal Comprehensive Cancer Center, University of Alabama at Birmingham, Birmingham, Alabama, USA

MARK A. RUBIN, MD

Department for BioMedical Research,
University of Bern, Bern Center for Precision
Medicine, Inselspital, University Hospital of
Bern, Bern, Switzerland

RAJAL B. SHAH, MD

Dr. Charles T. Ashworth Professor of
Pathology, The University of Texas
Southwestern Medical Center, Dallas, Texas,
USA

SHAHROKH SHARIAT, MD

Department of Urology, Comprehensive
Cancer Center, Medical University of Vienna,
Vienna, Austria

FARSHID SIADAT, MD, FRCPC

Department of Pathology and Laboratory
Medicine, Cumming School of Medicine,
University of Calgary, Rockyview General
Hospital, Calgary, Alberta, Canada

KIRIL TRPKOV, MD, FRCPC

Department of Pathology and Laboratory
Medicine, Cumming School of Medicine,
University of Calgary, Rockyview General
Hospital, Calgary, Alberta, Canada

THOMAS WAGNER, MD

Department of Pathology, Copenhagen
University Hospital, Rigshospitalet,
Department of Oncology, Copenhagen
University Hospital, Rigshospitalet,
Copenhagen, Denmark

GABRIEL WASINGER, MD

Department of Pathology, General Hospital of
Vienna, Medical University of Vienna, Vienna,
Austria

SEAN R. WILLIAMSON, MD

Department of Pathology, Robert J. Tomsich
Pathology and Laboratory Medicine Institute,
Cleveland Clinic Foundation, Director,
Genitourinary Pathology, Vice Chair,
Education, Professor of Pathology, Cleveland
Clinic and Cleveland Clinic Lerner College of
Medicine, Cleveland, Ohio, USA.

MING ZHOU, MD, PhD

Professor and Chair, Department of Anatomic
and Clinical Pathology, Tufts University School
of Medicine, Chair and Pathologist-in-Chief,
Department of Pathology and Laboratory
Medicine, Tufts Medical Center, Boston,
Massachusetts, USA