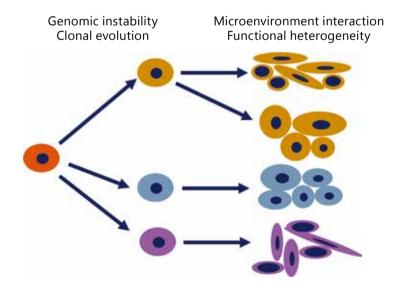
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Tumour Heterogeneity: A Practical Approach

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Next-Generation Sequencing

Guest Editor
Gerald Hoefler

Next-Generation Sequencing

Editor: Hoefler, G. (Graz)
IV + 68 p., 14 fig., 9 in color, 9 tab., soft cover, 2017
CHF 29.00 / EUR 27.00 / USD 34.00
Soft cover or online prices for personal customers
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Prices subject to change, VAT not included EUR price for eurozone countries, USD price for USA and Latin America only ISBN 978-3-318-06332-5 e-ISBN 978-3-318-06333-2

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Pathobiology

Vol. 84, No. 6 (2017)

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Next-generation sequencing (NGS) has revolutionized our knowledge about tumours and cancers over the last couple of decades. It has generated huge amounts of data that have given us a better idea of the landscape of tumours and cancers, thus improving patient management and setting the stage for personalized medicine in oncology. Whole-exome and -genome data on thousands of tumours have already been published and stored in public databanks. It is an exciting time for NGS, as its enormous potential for oncology research is making inroads into cancer diagnostic practice and care.

This special topic issue on NGS examines the use of this technology for genetic profiling and as a diagnostic tool in cancer research and treatment, particularly concerning cancers of the digestive system, gynaecological tumours, and bone and soft-tissue tumours. In the area of diagnostic pathology, it also looks at the principles behind NGS technologies, discusses important things to remember when interpreting data, and provides a glossary of NGS terms.

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- Next-Generation Sequencing in Diagnostics and Clinical Research: Hoefler, G.
- · Next-Generation Sequencing in Diagnostic Pathology: Ilyas, M.
- Genetic Profiling of Cancers of the Digestive System: Biological Insights and Clinical Implications: **Stenzinger**, **A.; Weichert**, **W**.
- Role of Next-Generation Sequencing as a Diagnostic Tool for the Evaluation of Bone and Soft-Tissue Tumors: Szurian, K.; Kashofer, K.; Liegl-Atzwanger, B.
- Next-Generation Sequencing in Gynaecological Tumours: The Prognostic and Predictive Value of the Most Common Mutations Found in Ovarian, Endometrial, and Cervical Tumours: Literature Review and the University Medical Centre Utrecht Next-Generation Sequencing Data: van Winkel, E.; de Leng, W.W.J.; Witteveen, P.O.; Jonges, T.; Willems, S.M.; Langenberg, M.H.G.

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Founded 1938 as *Schweizerische Zeitschrift für allgemeine Pathologie und Bakteriologie* by A. v. Albertini, A. Grumbach and H. Mooser, continued as *Pathologia et Microbiologia* (1960–1975) and *Experimental Cell Biology* (1976–1989); incorporating *Pathology and Immunopathology Research*, founded 1982 as *Survey and Synthesis of Pathology Research* by J.M. Cruse and R.E. Lewis, continued as *Pathobiology*, edited by J.M. Cruse and R.E. Lewis (1990–1998) Continued by Ch. Wittekind (1999–2004)

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Publication Data: *Pathobiology* is published 6 times a year. Volume 85 with 6 issues appears in 2018.

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Pathobiology offers a valuable platform for the publication of high-quality original research into the mechanisms underlying human disease. Aiming to serve as a bridge between basic biomedical research and clinical medicine, the journal welcomes articles from scientific areas such as pathology, oncology, anatomy, virology, internal medicine, surgery, cell and molecular biology, and immunology. Published bimonthly, Pathobiology features original research papers and reviews on translational research. The journal offers the possibility to publish proceedings of meetings dedicated to one particular topic.

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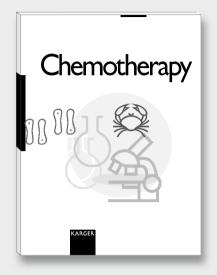
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2018: Volume 63 6 issues per volume Language: English ISSN 0009–3157 e-ISSN 1421–9794

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- Clinical Practice of Adjuvant Chemotherapy in Patients with Early-Stage Epithelial Ovarian Cancer: Frielink L.M. (Maastricht/Eindhoven) et al.
- Potential of Casiopeínas® Copper Complexes and Antituberculosis Drug Combination against Mycobacterium tuberculosis: Barbosa A.R. (São Paulo) et al.
- Anti-CCR4 Monoclonal Antibody Mogamulizumab Followed by the GDP (Gemcitabine, Dexamethasone and Cisplatin) Regimen in Primary Refractory Angioimmunoblastic T-Cell Lymphoma: **Kato H.** (Nagoya) **et al.**
- Antimicrobial Susceptibility among European Gram-Negative and Gram-Positive Isolates Collected as Part of the Tigecycline Evaluation and Surveillance Trial (2004–2014): Rodloff A.C. (Leipzig); Dowzicky M.J. (Collegeville, Pa.)
- Clarithromycin Dose-Dependently Stabilizes Rat Peritoneal Mast Cells: **Kazama I.** (Sendai) **et al.**
- Characterization of Integrons and Sulfonamide Resistance Genes among Bacteria from Drinking Water Distribution Systems in Southwestern Nigeria: Adesoji A.T.; Ogunjobi A.A. (Ibadan); Olatoye I.O. (Ibadan/Pullman, Wash.)
- Do You Know Pixantrone?: Minotti, G.; Menna, P.; Salvatorelli, E. (Rome)
- Primary Prevention Strategies for Anthracycline Cardiotoxicity: A Brief Overview: Menna, P.; Salvatorelli, E. (Rome)

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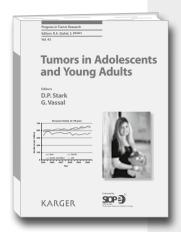
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Tumors in Adolescents and Young Adults

Editors Daniel P. Stark Gilles Vassal

Tumors in Adolescents and Young Adults

Editors: Stark, D.P. (Leeds); Vassal, G. (Villejuif) X + 146 p., 15 fig., 9 in color, 19 tab., 2016 CHF 198.00 / EUR 185.00 / USD 233.00 Hard cover or online prices for personal customers

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Progress in Tumor Research, Vol. 43

Series Editors: Stahel, R.A. (Zurich); Peters, S. (Lausanne) ISSN 2296-1895 / e-ISSN 2296-1887

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Orders may be placed with any bookshop, subscription agency, directly with the publisher or through a Karger distributor. The field of adolescents and young adults (AYA) oncology is experiencing a very challenging time. This book is a guide to the key issues for any clinician and health professional managing AYA with cancer in Europe. Emphasis is on collaboration between adult and pediatric specialists. Authors present their perception of the current state of the most prominent primary issues in AYA oncology.

Chapters cover cross-cutting issues such as disease epidemiology, systems of care, access to innovative therapy and late effects of treatment and survivorship for AYA-onset cancers. There are discussions of the latest developments and the most important cancer types in AYA, including the shared perspectives of adult and pediatric specialists. Throughout the book recurrent challenges to the AYA community are exposed and solutions proposed.

Tumors in Adolescents and Young Adults is highly recommended to any oncologist or hematologist treating patients aged 15 to 39 diagnosed with cancer. It will also be of interest to other members of the multidisciplinary teams involved with this patient group.

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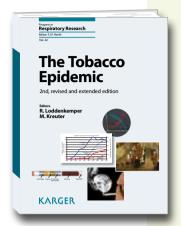
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The clinical, public health and political aspects of tobacco smoking



The Tobacco Epidemic

2nd, revised and extended edition

Editors Robert Loddenkemper Michael Kreuter



The Tobacco Epidemic

2nd, revised and extended edition Editors: Loddenkemper, R. (Berlin); Kreuter, M. (Heidelberg) X + 276 p., 85 fig., 31 in color, 29 tab., 2015 CHF 78.00 / EUR 73.00 / USD 92.00

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Orders may be placed with any bookshop, subscription agency, directly with the publisher or through a Karger distributor. This completely revised and enlarged 2nd edition of *The Tobacco Epidemic* provides a comprehensive update of the clinical, public health and political aspects of tobacco smoking. Since its 1st edition in 1997, knowledge on the health hazards of tobacco and nicotine addiction has increased considerably, but recent data has shown that the global problem has become more aggravated in low- and middle-income countries: if current trends continue, tobacco smoking will be responsible for the deaths of 1 billion people in the 21st century.

Written by outstanding international experts, the book covers the history of tobacco production and use, the economics of tobacco use and control, as well as the health consequences of active and passive smoking in both adults and children. Special chapters discuss the impact of media, movies and TV on tobacco consumption in young people, the patterns and predictors of smoking cessation in the general population and in different social subgroups, and initiatives supported by the WHO Framework Convention on Tobacco Control. Readers will find the latest information on how nicotine dependence is treated with nicotine replacement products, what role health care professionals play in helping smokers to guit and what effects smoke-free environments. advertising bans and price increases have on smoking prevalence. The potential harms and benefits of smokeless tobacco, waterpipe tobacco smoking and electronic cigarettes are also evaluated.

This book is a must-read for anyone in the medical profession who treats patients with smoking-related diseases and for those engaged in tobacco control. It will also be appreciated by interested nonmedical readers like journalists and legislators.

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 Zale, E.L.; Brandon, T.H.
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Pathobiology

Tumour Heterogeneity: A Practical Approach

The contributors to this publication are pathologists involved in specific tumour diagnostics and molecular analysis. Various approaches described in the articles show the state-of-the-art knowledge applied to studying heterogeneity in different types of tumours. Compared to a wide range of available literature on intratumour heterogeneity in clinical research and diagnostics, the focus here is on practical methods for improving heterogeneity analysis of clinical material. This is relevant because no standardized types of examinations currently exist. Thus, this publication serves as a basis for development of standards in tumour tissue sampling, and in reproducible molecular analysis and interpretation.

This is an invaluable resource for pathologists, oncologists, and molecular biologists. Other health professionals directly involved in clinical treatment of tumours, as well as in basic research, will also benefit greatly from this work.

