

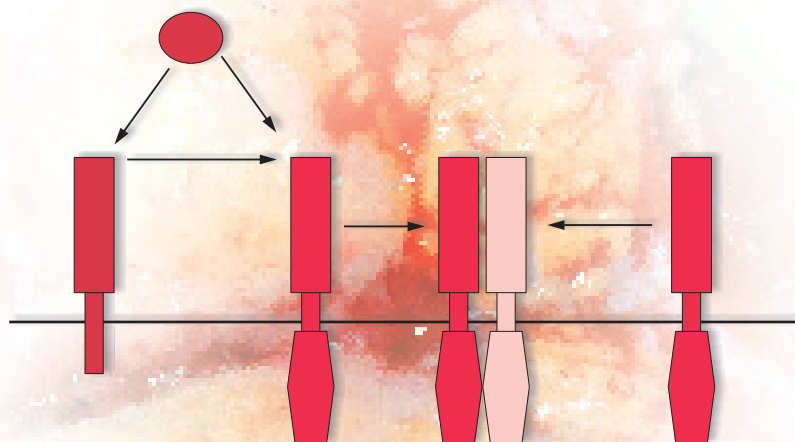
Chemotherapy and targeted therapy in pancreatic cancer

Andreas Hilbig

Helmut Oettle

in collaboration with

Marcus Bahra, Hendrik Bläker, Birgit Blass,
Carsten Denkert, Rainer Fietkau, Hubert Heinrichs,
Katharina Lechner, Enrique Lopez-Häninen, Rolf D. Issels,
Ulf Peter Neumann, Matthias Pirlich, Karl-Hermann Schlingensiepen,
Susanne Schmaus, Christian Seitz, Bruno Sinn, Marianne Sinn,
Jens Stieler, Robert Wentrup



Chemotherapy and targeted therapy in pancreatic cancer



UNI-MED Verlag AG
Bremen - London - Boston

Hilbig, Andreas:

Chemotherapy and targeted therapy in pancreatic cancer/Andreas Hilbig and Helmut Oettle.-

1st edition - Bremen: UNI-MED, 2012 (UNI-MED SCIENCE)

ISBN 978-3-8374-6193-0

© 2012 by UNI-MED Verlag AG, D-28323 Bremen,
International Medical Publishers (London, Boston)
Internet: www.uni-med.de, e-mail: info@uni-med.de

Printed in Europe

This work is subject to copyright. All rights are reserved, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilm or in any other way and storage in data banks. Violations are liable for prosecution under the German Copyright Law.

The use of general descriptive names, registered names, trademarks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

Product liability: The publishers cannot guarantee the accuracy of any information about the application of operative techniques and medications contained in this book. In every individual case the user must check such information by consulting the relevant literature.

MEDICINE - STATE OF THE ART

UNI-MED Verlag AG, one of the leading medical publishing companies in Germany, presents its highly successful series of scientific textbooks, covering all medical subjects. The authors are specialists in their fields and present the topics precisely, comprehensively, and with the facility of quick reference in mind. The books will be most useful for all doctors who wish to keep up to date with the latest developments in medicine.

Preface and acknowledgements

Despite the recent advances in targeted therapy and personalized medicine, pancreatic cancer remains one of the most deadly and challenging malignancies. The delayed diagnosis of the tumor due to unspecific early symptoms and poor response to chemotherapy results in a case-fatality rate of 95 %, and almost 12.000 deaths related to this tumor every year in Germany alone. Although the efficacy of therapeutic approaches has slightly increased over the last years, our understanding of the molecular biology of pancreatic cancer is only in its infancy. Interdisciplinary cooperation of researchers in the fields of molecular biology, pathology, surgery, radiotherapy and medical oncology is necessary to overcome the obvious resistance to breakthrough advances in the future.

Thus, it is the intention of this book to give an overview of the recent progress in the treatment of pancreatic cancer, but also to draw attention to the many therapeutic challenges to be met. We hope that the contribution in this book will further heighten interest in this malignancy, inspire productive discussions and stimulate interdisciplinary efforts to further improve prognosis of this tumor.

We would like to thank all authors for their diligent work to provide state-of-the-art reviews of the various aspects of pancreatic cancer.

Muenster, Berlin and Friedrichshafen, October 2012

*Andreas Hilbig
Helmut Oettle*

Authors

Priv.-Doz. Dr. med. Marcus Bahra
Klinik für Allgemein-, Viszeral-, und Transplantationschirurgie
Universitätsklinikum Charité
Campus Virchow-Klinikum
Humboldt-Universität
Augustenburger Platz 1
13353 Berlin
Chapter 2.1.

Prof. Dr. med. Hendrik Bläker
Institut für Pathologie
Charité - Universitätsmedizin Berlin
Campus Mitte
Charitéplatz 1
10117 Berlin
Chapter 1.3.

Dr. rer. nat. Birgit Blass
Antisense Pharma GmbH
Josef-Engert-Str. 9
93053 Regensburg
Chapter 3.4.

Prof. Dr. med. Carsten Denkert
Institut für Pathologie
Charité - Universitätsmedizin Berlin
Campus Mitte
Charitéplatz 1
10117 Berlin
Chapter 1.3.

Prof. Dr. med. Rainer Fietkau
Universitätsklinikum Erlangen
Strahlenklinik
Universitätsstr. 27
91054 Erlangen
Chapter 3.3.

Dr. med. Hubert Heinrichs
Antisense Pharma GmbH
Josef-Engert-Str. 9
93053 Regensburg

Chapter 3.4.

Dr. med. Andreas Hilbig
Medizinische Klinik und Poliklinik A
Universitätsklinikum Münster
Medizinische Klinik und Poliklinik A
Hämatologie, Hämostaseologie, Internistische Onkologie, Pneumologie
Albert-Schweitzer-Campus 1, Gebäude A1
48149 Münster

Chapter 2.2., 3.1., 3.6.

Dr. med. Katharina Lechner
Medizinische Klinik III
Klinikum der Ludwig-Maximilians-Universität München
Campus Großhadern
Marchioninistr. 15
81377 München

Chapter 3.5.2.

Priv.-Doz. Dr. med. Enrique Lopez-Häninen
Martin-Luther-Krankenhaus Berlin
Klinik für Radiologie und Nuklearmedizin
Caspar-Theyß-Str. 27-31
14193 Berlin

Chapter 1.1.

Prof. Dr. med. Dipl.-Biochem. Rolf D. Issels
Medizinische Klinik III
Klinikum der Universität München
Campus Großhadern
Marchioninistr. 15
81377 München

and

Institut für Molekulare Immunologie
Helmholtz Zentrum München
Marchioninistr. 25
81377 München

Chapter 3.5.1.

Prof. Dr. med. Ulf Peter Neumann
Klinik für Allgemein-, Viszeral- und Transplantationschirurgie
Universitätsklinikum Aachen
RWTH Aachen
Pauwelsstraße 30
52074 Aachen

Chapter 2.1.

Priv.-Doz. Dr. med. Helmut Oettle
Praxis für Hämatologie und internistische Onkologie
Friedrichstr. 53
88045 Friedrichshafen

and

Medizinische Klinik mit Schwerpunkt Hämatologie, Onkologie und Tumorimmunologie
CC 14: Tumormedizin
Charité - Universitätsmedizin Berlin
Campus Virchow-Klinikum
Augustenburger Platz 1
13353 Berlin

Kap. 3.1., 3.6.

Prof. Dr. med. Matthias Pirlich
Elisabeth Krankenhaus Berlin
Lützowstr. 24-26
10785 Berlin

Chapter 1.2.

Dr. med. Karl-Hermann Schlingensiepen
Antisense Pharma GmbH
Josef-Engert-Str. 9
93053 Regensburg

Chapter 3.4.

Dr. rer. nat. Susanne Schmaus
Antisense Pharma GmbH
Josef-Engert-Str. 9
93053 Regensburg

Chapter 3.4.

Dr. rer. nat. Christian Seitz
Antisense Pharma GmbH
Josef-Engert-Str. 9
93053 Regensburg

Chapter 3.4.

Dr. med. Bruno Sinn
Institut für Pathologie
Charité - Universitätsmedizin Berlin
Campus Mitte
Charitéplatz 1
10117 Berlin

Chapter 1.3.

Dr. med. Marianne Sinn
Medizinische Klinik mit Schwerpunkt Hämatologie, Onkologie und Tumorimmunologie
CC 14: Tumormedizin
Charité - Universitätsmedizin Berlin
Campus Virchow-Klinikum
Augustenburger Platz 1
13353 Berlin
Chapter 4.

Dr. med. Jens Stieler
Medizinische Klinik mit Schwerpunkt Hämatologie, Onkologie und Tumorimmunologie
CC 14: Tumormedizin
Charité - Universitätsmedizin Berlin
Campus Virchow-Klinikum
Augustenburger Platz 1
13353 Berlin
Chapter 3.2.

Dr. med. Robert Wentrup
Medizinische Klinik für Gastroenterologie, Hepatologie und Endokrinologie
Zentrale Endoskopie Charité
Campus Mitte Universitätsmedizin Berlin
Charitéplatz 1
10117 Berlin
Chapter 1.2.