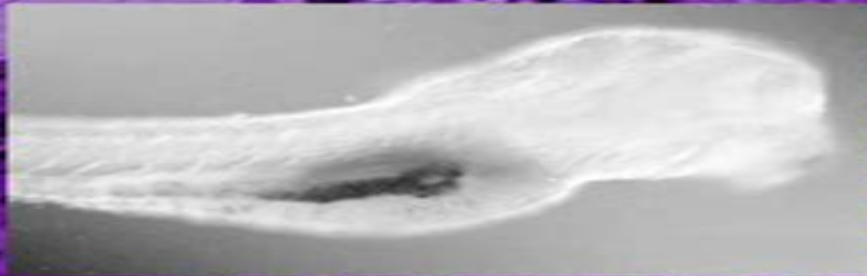


# Pancreatic Cancer

*Methods and Protocols*

Edited by

Gloria H. Su



# Pancreatic Cancer Methods And Protocols Methods In Molecular Medicine

**L Darling-Hammond**



## **Pancreatic Cancer Methods And Protocols Methods In Molecular Medicine:**

Pancreatic Cancer Gloria H. Su, 2008-02-01 Pancreatic ductal adenocarcinoma is the fourth leading cause of cancer death in the United States. Annually approximately 30 000 Americans are diagnosed with the disease and most will die from it within five years. Pancreatic ductal adenocarcinoma is unique because of its late onset in age, high mortality, small tumor samples infiltrated with normal cells, and a lack of both early detection and effective therapies. Some of these characteristics have made studying this disease a challenge. Pancreatic cancer develops as a result of the accumulation of genetic alterations in cancer-causing genes such as the oncogenes and the tumor suppressor genes. In the last decade, major progress has been made in identifying important oncogenes and tumor suppressor genes for the disease. In *Pancreatic Cancer Methods and Protocols*, we review the classical techniques that have contributed to the advances in pancreatic research and introduce new strategies that we hope will add to future breakthroughs in the field of cancer biology. *Pancreatic Cancer Methods and Protocols* provides a broad range of protocols for molecular, cellular, pathological, and statistical analyses of sporadic and familial pancreatic cancer. It covers topics from in vitro cell cultures to in vivo mouse models, DNA to protein manipulation, and mutation analyses to treatment development. We believe that our book will prove an invaluable source of proven protocols for those who are interested in either basic or translational research in pancreatic cancer. **Pancreatic Cancer** Andrew M. Lowy, Steven D. Leach, Philip Philip, 2008-07-10 Since the previous *M.D. Anderson Solid Tumor Oncology Series* publication on pancreatic cancer, there have been major advances in our understanding of molecular events which underlie pancreatic cancer development, both in the sporadic and inherited forms. We have seen the development of the first mouse models that accurately recapitulate features of the human disease. Several landmark clinical trials in both resectable and metastatic pancreatic cancer have been completed, raising new questions about the standard of care in this disease. Finally, the era of targeted biologic therapies has engendered new excitement about the prospects of more rapid progress in understanding and successfully treating this dreadful disease. Therefore, it is an appropriate time to review these important advances and outline areas of controversy and question in pancreatic cancer biology and treatment. Clinical Bioinformatics Ronald J.A. Trent, 2007-12-18 With the ever-increasing volume of information in clinical medicine, researchers and health professionals need computer-based storage, processing, and dissemination. In this book, leading experts in the field provide a series of articles focusing on software applications used to translate information into outcomes of clinical relevance. This book is the perfect guide for researchers and clinical scientists working in this emerging omics era. DNA Vaccines Mark W. Saltzman, Hong Shen, Janet L. Brandsma, 2008-02-02 In the early 1990s, almost 200 years after Edward Jenner demonstrated the effectiveness of the smallpox vaccine, a new paradigm for vaccination emerged. The conventional method of vaccination required delivery of whole pathogens or structural subunits, but in this new approach, DNA or genetic information was administered to elicit an immunological response. Once it was observed that plasmid DNA delivered in vivo led to production

of an encoded transgene 1 two ground breaking studies demonstrated that immunological responses could be generated against antigenic transgenes via plasmid DNA delivered by DNA vaccination as this approach is called 2 3 The appearance of this new vaccination strategy coincided with advances in molecular biology which provided new tools to study and manipulate the basic elements of an organism's genome and also could also be applied to the design and production of DNA vaccines DNA Vaccines is a major updated and enhancement of the first edition It reviews state of the art methods in DNA vaccine technology with chapters describing DNA vaccine design delivery systems adjuvants current applications methods of production and quality control Consistent with the approach of the Methods in Molecular Medicine series these chapters contain detailed practical procedures on the latest DNA vaccine technology The enthusiasm for DNA vaccine technology is made clear by the number of research studies published on this topic since the mid 1990s

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*New Antibiotic Targets* W. Scott Champney, 2008-01-15 This book examines specific techniques which can be used to explore new drug targets and the effectiveness of new antibiotics By testing new antimicrobial agents and modified existing drugs the most vulnerable cell processes such as cell wall and membrane synthesis DNA replication RNA transcription and protein synthesis can be better exploited This in depth volume however delves even deeper by identifying additional novel cellular targets for these new therapies The book will provide laboratory

investigators with the vital tools they need to test the antimicrobial potential of products and to curb the rise of so many infectious diseases      *Congenital Heart Disease* Mary Kearns-Jonker,2008-02-02 Prominent researchers and clinicians describe in detail all the latest laboratory techniques currently used to define the molecular genetic basis for congenital malformations of the heart cardiomyopathies cardiac tumors and arrhythmias in human patients In particular the methods can be used to identify in clinical samples those genetic mutations responsible for such congenital abnormalities as Marfan syndrome Williams Beuren Syndrome Alagille syndrome Noonan syndrome and Friedreich ataxia The authors also discuss the limitations of identifying patients with congenital heart disease using these techniques during both pre and postnatal periods

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