



REVIEW

## Conquering lung cancer: current status and prospects for the future

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### KEYWORDS

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Immune checkpoint  
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Targeted therapies;  
Tobacco control

**Abstract** Lung cancer is a major global health problem. Several strategies are required to conquer this cancer. Stricter implementations of tobacco control measures are necessary. Early detection programs should be implemented to decrease lung cancer mortality. Although chemotherapy remains a cornerstone of treatment, targeted therapies and immune checkpoint inhibitors improved treatment of metastatic cancers and are hoped to improve outcome of adjuvant and induction therapies. Novel immunotherapy approaches hold great promise. Better understanding of the molecular biology of lung cancer should lead to rational drug design.  
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### Introduction

Lung cancer is a global health problem. Approximately 2.1 million individuals are diagnosed with lung cancer and 1.8 million die from this cancer each year.<sup>1</sup> Lung cancer rates continue to increase on the global level, although the rates are declining among males in some Western countries. Non-small cell lung cancer (NSCLC) makes up about 85% and small cell lung cancer (SCLC) about 15% of lung cancers. Pathological diagnosis is based on histology, immune histology and molecular analysis.<sup>2</sup> Lung cancers are currently staged according to the eighth edition of the TNM Classification for Lung Cancer.<sup>3,4</sup> Tumor stage is important for prognosis and treatment.<sup>3,4</sup> Overall, the five year survival rates are

15–20%. Among patients with NSCLC, these rates reach 90% for stage 1A but drop below 10% for stage 4. Among patients with SCLC, the rates are about 30% for limited disease and below 10% for extensive disease.

Treatment of patients with lung cancer requires multidisciplinary co-operation and is based on surgery, radiotherapy, systemic treatments (chemotherapy, targeted therapies, immune checkpoint inhibitors) and supportive care including end-of-life care. Treatment depends on tumor characteristics, tumor stage and patient-related factors. Finally, access to and re-imbursment of novel drugs are becoming an increasing challenge for many countries.

Major diagnostic and therapeutic advances have occurred during the last three decades. Here, the current status of systemic treatment and strategies for conquering lung cancer are described.

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# Lung Cancer Current Status Prospects

**Haixue Kuang**



## **Lung Cancer Current Status Prospects:**

*Current Catalog* National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70

Immunotherapy in specific patients with lung cancer Yi Zhao,Tao Jiang,Alessandro Russo,Dawei Chen,2023-04-12

Issues and Challenges in NSCLC Immunotherapy Paweł Adam Krawczyk,Qing Zhou,Rafal Dziadziuszko,Natasha Leighl,2021-12-06     Journal of the National Cancer Institute ,2006     **Cancer Vaccination and Challenges** Rishabha Malviya,Bhupendra Prajapati,Sonali Sundram,2024-11-22 Volume 1 Strategies for Therapeutic Cancer Vaccine Development deals with strategies of cancer vaccine development focussing on the techniques for the development of therapeutic cancer vaccines and the role of tumor antigens proteins peptides microbial genes and stem cells for the development of vaccines for cancer management Volume 2 Delivery Strategies for Cancer Vaccine and Immunotherapy in Management of Various Carcinomas covers delivery strategies of cancer vaccines for the management of various forms of carcinoma examining the prospects of delivering immuno oncology therapies focusing specifically on effective drug delivery strategies for the treatment of lung prostate and pancreatic carcinomas     **The Effect of Anti-Cancer Drug Therapies in the Treatment of Lung Cancer** Pasquale Pisapia,Cyril Corbet,Zhi Li,2022-11-24     **Lung Cancer** Clifton F. Mountain,David T. Carr,1986

National Library of Medicine Current Catalog National Library of Medicine (U.S.),1987     **Cancer Patients, Cancer Pathways** C. Timmermann,E. Toon,2012-10-10 Eleven essays by historians and sociologists examine cancer research and treatment as everyday practice in post war Europe and North America These are not stories of inevitable medical progress and obstacles overcome but of historical contingencies cultural differences hope and often disappointed expectations

**Intracranial Metastases** Raymond Sawaya,2008-04-15 This is the first comprehensive textbook on intracranial metastases in over 20 years with an update on current methods for their management including the use of newer technologies Each of the various histological types of cancer metastasizing to the brain is presented separately in a detailed analysis and discussion This volume includes a consideration of the epidemiology of brain metastases and the quality of life in patients who have them Special topics not previously covered are reviewed including metastasis to the skull base and strategies for preventing cancer from metastasizing to the brain A novel feature is a chapter devoted to the use of recent techniques such as functional magnetic resonance MR imaging MR spectroscopy metabolite mapping and dynamic susceptibility contrast imaging regional cerebral blood volume mapping to characterize brain metastases in terms of the sensorimotor perturbations they produce their metabolic response to therapy and their degree of vascularization respectively

Neuro-Oncology of CNS Tumors Jörg-Christian Tonn,Manfred Westphal,J. T. Rutka,S.A. Grossman,2006-01-16 Diagnosis and treatment modalities for neuro oncologic diseases have made considerable advances in recent years There is hardly a segment of the field of solid tumours that is experiencing such dynamic development with regard to basic scientific findings and clinical results In the present book the world s leading experts have compiled the current practice relevant knowledge of

neuro oncologic diseases The book's clear structure and the uniform presentation of all chapters make this volume a valuable reference especially for practice oriented activities allowing swift access to information about current treatment standards Hence it will be of great value to both clinicians and researchers

**Recent Advances in Theories and Practice of Chinese Medicine** Haixue Kuang, 2012-01-18 During the recent years traditional Chinese medicine TCM has attracted the attention of researchers all over the world It is looked upon not only as a bright pearl but also a treasure house of ancient Chinese culture Nowadays TCM has become a subject area with high potential and the possibility for original innovation This book titled Recent Advances in Theories and Practice of Chinese Medicine provides an authoritative and cutting edge insight into TCM research including its basic theories diagnostic approach current clinical applications latest advances and more It discusses many often neglected important issues such as the theory of TCM property and how to carry out TCM research in the direction of TCM property theory using modern scientific technology The authors of this book comprise an international group of recognized researchers who possess abundant clinical knowledge and research background due to their years of practicing TCM Hopefully this book will help our readers gain a deeper understanding of the unique characteristics of Chinese medicine

*Outcome Prediction in Cancer* Azzam F.G. Taktak, Anthony C. Fisher, 2006-11-28 This book is organized into 4 sections each looking at the question of outcome prediction in cancer from a different angle The first section describes the clinical problem and some of the predicaments that clinicians face in dealing with cancer Amongst issues discussed in this section are the TNM staging accepted methods for survival analysis and competing risks The second section describes the biological and genetic markers and the role of bioinformatics Understanding of the genetic and environmental basis of cancers will help in identifying high risk populations and developing effective prevention and early detection strategies The third section provides technical details of mathematical analysis behind survival prediction backed up by examples from various types of cancers The fourth section describes a number of machine learning methods which have been applied to decision support in cancer The final section describes how information is shared within the scientific and medical communities and with the general population using information technology and the World Wide Web Applications cover 8 types of cancer including brain eye mouth head and neck breast lungs colon and prostate Include contributions from authors in 5 different disciplines Provides a valuable educational tool for medical informatics

*Circulating Molecular Biomarkers: Next-Generation Tools for Monitoring Minimal Residual Disease in Cancer Patients* Zohreh Amoozgar, Rana Jahanban-Esfahlan, Mehdi - Jaymand, 2023-08-16 Traditional cancer diagnosis relies on tissue biopsy blood testing as well as medical imaging By the detection moment in most cases the tumor size may reach several millimeters and the risk of distant metastasis is unavoidable Even following drug treatment there is no accurate and timely way to follow up the success of treatment New reliable tumor specific biomarkers tools that allow non invasive early cancer detection as well as monitoring of anti cancer therapeutic regime is highly demanded To tackle limitations of traditional cancer management liquid biopsy

has emerged which screen bodily fluids using ultrasensitive biosensing systems capable of simultaneous capturing and studying horizontal gene transfer HGT materials including circulating tumor cells CTCs exosomes cell free DNA and apoptotic bodies These are messengers and or delivery systems by which tumor cells are communicating as well as transforming sharing new phenotypes with each other resulting in drug resistance distant metastatic outbreaks and cancer recurrence Acting as next generation prognostic and therapeutic tools call for understanding the molecular mechanisms by which HGT works to tran

Cellular Immune Mechanisms and Tumor Dormancy T. H. M. Stewart, E. Frederick Wheelock, 2017-07-28 Cellular Immune Mechanisms and Tumor Dormancy features the work of internationally recognized experts from various disciplines as they discuss the phenomenon of tumor dormancy in humans Animal models are described in which cellular and molecular components of the immune control of dormancy have been identified and the relevance of these models to human cancer patients is recognized Data derived from studies of organ transplantation adjuvant chemotherapy radiotherapy anaesthesia surgery and whole blood transfusion is presented to show the vulnerability of cellular mechanisms maintaining dormancy The potential for increasing the incidence of dormancy in micro metastases is also shown for non small cell lung cancer lymphoma and leukemia Cellular Immune Mechanisms and Tumor Dormancy is an important reference volume that will benefit researchers from many disciplines including immunologists pathologists surgeons and clinicians

*Annual Report, Intramural Activities* National Cancer Institute (U.S.). Division of Cancer Etiology, 1987

Breast Cancer W.P. Peters, D.W. Visscher, 1998-08-25 Breast cancer research has never been in such an exciting and hopeful phase as today From a clinical perspective the discovery of genetic markers of risk in a proportion of familial breast cancer cases has opened up new vistas for understanding and ultimately preventing this disease On the other hand aggressive even daring therapies are being proven to be effective against advanced breast cancer For the breast cancer experimentalist this is also a time of great advance Although animal and cell culture breast cancer models have proven to be of great use there are now increasing opportunities to test the concepts developed in these models in actual clinical samples and cases It is gratifying to see how well these concepts translate into the clinical setting A very active area of research that is linking the laboratory to the clinic is the dissection of the biology and elucidation of the significance of proliferate breast disease and the identification of true high risk or preneoplastic lesions within the previously ill defined spectrum of fibrocystic or benign breast disease One anticipates that discoveries made here will also lead to earlier detection intervention and prevention of life threatening cancer Even however as we look with optimism to the eventual eradication of breast cancer we are once again forced to face the reality that we have not yet achieved our goal Thus we are saddened by the much too premature death of Dr Helene Smith from breast cancer Helena s work was at the forefront of efforts to understand the biology of human breast cancer at the molecular level Her insight open mindedness and refusal to sacrifice relevance for convenience will continue to set the standard for all breast cancer researchers This volume is dedicated to her memory

## **Immunological Precision Therapeutics: Integrating Multi-Omics Technologies and Comprehensive Approaches for Personalized Immune Intervention**

Wenyi Jin,Raquel Alarcon Rodriguez,Mar Requena

Mullor,2025-03-20 In the realm of modern immunology the pursuit of precision therapeutics has emerged as a paramount endeavor This research field harnesses the power of advanced multi omics technologies and comprehensive methodologies to revolutionize personalized immune interventions Immunotherapy a cornerstone of precision medicine targets the intricate dynamics of the immune system to combat diseases ranging from cancer to autoimmune disorders Integrating multi omics analyses including genomics transcriptomics proteomics and metabolomics enables a holistic understanding of immune responses at various molecular levels Immune signatures derived from these analyses unveil individualized patterns offering crucial insights into disease susceptibility and treatment efficacy Leveraging this wealth of data through sophisticated computational models and machine learning algorithms enhances our ability to predict immune responses and identify optimal therapeutic strategies By amalgamating diverse approaches from single cell profiling to spatial transcriptomics we delve deeper into the complexities of immune regulation and cellular interactions within the microenvironment Through collaborative efforts the pursuit of immunological precision therapeutics aims to tailor interventions precisely to each patient s immune landscape ushering in a new era of personalized immune modulation

**Advances in mathematical and computational oncology, volume III** George Bebis,Dinler Amaral Antunes,Ken Chen,Mohammad Kohandel,Kathleen Wilkie,Mamoru Kato,Jinzhuang Dou,2023-10-25

**Published Scientific Papers of the National Institutes of Health** National Institutes of Health (U.S.),National Institutes of Health (U.S.),1990 Presents the broad outline of NIH organizational structure theprofessional staff and their scientific and technical publications covering work done at NIH

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