



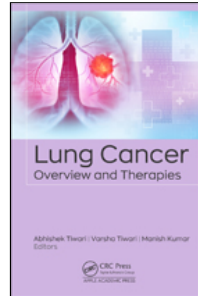
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Lung Cancer
Overview and Therapies

Editors: **Abhishek Tiwari, PhD**
Varsha Tiwari, PhD
Manish Kumar, PhD

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Lung cancer remains one of the most prevalent and challenging malignancies, contributing significantly to global cancer-related morbidity and mortality. This new book, **Lung Cancer: Overview and Therapies**, explores various facets of lung cancer, providing an extensive overview of its molecular underpinnings, diagnostic modalities, treatment strategies, and the burgeoning field of nanotechnology in cancer therapeutics.

This book offers a wealth of valuable information on a diverse range of topics that provide an in-depth exploration of lung cancer, covering critical aspects such as pathogenesis, diagnostic imaging techniques, current treatment approaches, and the revolutionary field of nanotechnology in cancer therapy.

The book first provides an insightful overview of lung cancer, shedding light on its pervasiveness, etiological underpinnings, and the diverse therapeutic modalities employed in tackling both non-small cell lung cancer (NSCLC) and small cell lung cancer (SCLC). The book then goes on to cover the pathogenesis and molecular biology of lung cancer. Also discussed are diagnostic imaging techniques that explain lung cancer staging and characterization, covering a range of modalities such as chest X-rays to positron emission tomography.

Several chapters are dedicated to the development of targeted drug delivery systems, harnessing the transformative potential of nanoparticles, including magnetic nanoparticles, polymeric nanoparticles, dendrimers, and liposomes, etc. The book also explores the interplay between receptor overexpression and lung cancer pathogenesis, illuminating the evolving landscape of targeted therapies and the persistent challenges posed by therapeutic resistance and the role of diverse polymeric and lipid-based nanoparticle formulations as powerful tools in drug and gene delivery, offering tailored solutions to the multifaceted challenges of lung cancer treatment.

With each chapter designed to deliver comprehensive insights, this compilation serves as a valuable resource for researchers, clinicians, and students invested in advancing our understanding of lung cancer and enhancing therapeutic strategies.

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book proposals to consider for these topics and related areas: applied microbiology, environmental biotechnological and waste management, including environmental pollution, wastewater treatment, bioenergy, biofuel, circular economy, leachate treatment activated sludge process, environmental microbiology, agricultural microbiology, advance oxidation process, bio-electrochemical systems, bacterial genomics for wastewater treatment, and heavy metal remediation. maulinshah1979@gmail.com for more information.

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