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Title:	Cell signaling molecules as drug targets in lung cancer: An overview
Authors:	Mukhopadhyay, Srirupa (/jspui/browse?type=author&value=Mukhopadhyay%2C+Srirupa) Mukherjee, Tapan K. (/jspui/browse?type=author&value=Mukherjee%2C+Tapan+K.) Paul, Karan (/jspui/browse?type=author&value=Paul%2C+Karan)
Keywords:	acetylsalicylic acid antineoplastic agent
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Publisher:	Lippincott Williams & Wilkins, Inc
Citation:	Current Opinion in Pulmonary Medicine, 17 (4), pp. 286-291.
Abstract:	Lung being one of the vital and essential organs in the body, lung cancer is a major cause of mortality in the modern human society. Lung cancer can be broadly subdivided into nonsmall cell lung cancer (NSCLC) and small cell lung cancer (SCLC). Although NSCLC is sometimes treated with surgery, the advanced and metastatic NSCLC and SCLC usually respond better to chemotherapy and radiation. The most important targets of these chemotherapeutic agents are various intracellular signaling molecules. The primary focus of this review article is to summarize the description of various cell signaling molecules involved in lung cancer development and their regulation by chemotherapeutic agents. RECENT FINDINGS: Extensive research work in recent years has identified several cellular signaling molecules that may be intricately involved in the complexity of lung cancer. Some of these cell signaling molecules are epidermal growth factor receptors, vascular endothelial growth factor receptors, mammalian target of rapamycin, mitogen-activated protein kinase phosphatase-1, peroxisome proliferator-activated receptor-gamma, matrix metalloproteinases and receptor for advanced glycation end-products. SUMMARY: The present review will strengthen our current knowledge regarding the efficacy of the above-mentioned cell signaling molecules as potential beneficial drug targets against lung cancer
URI:	http://journals.lww.com/co-pulmonarymedicine/Abstract/2011/07000/Cell_signaling_molecules_as_drug_targets_in_lung.14.aspx (http://journals.lww.com/co-pulmonarymedicine/Abstract/2011/07000/Cell_signaling_molecules_as_drug_targets_in_lung.14.aspx)
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