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## Current concept in the new WHO classification of lung cancers and its impacts on the cytological differential diagnosis of lung cancers

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The new WHO classification of lung cancers has been published recently. Several concepts and guidelines have been incorporated into this new edition based on molecular characterizations of lung tumors and targeted therapies. Many improvements have already been made in the past decade due to the discovery of EGFR mutation and the innovation of new diagnostic techniques. The new WHO classification has a critical impact on the cytological practice. The cytological specimens commonly used in clinical diagnosis include: Sputum, bronchial brushing and washing, bronchoalveolar lavage, transbronchial fine needle aspiration (TBNA), endobronchial ultrasound guided transbronchial fine needle aspiration (EBUS-TBNA) and transthoracic CT or ultrasound guided fine needle aspiration. Familiarity with the new classification of lung cancers, cytomorphological features of respiratory specimens and techniques of obtaining these samples are critical in order to make an accurate diagnosis. In addition, ancillary studies including immunohistochemical studies and molecular tests also play important roles in lung cancer classification. In this presentation, we will discuss the current concept of lung cancers and the utility of ancillary tests including immunohistochemistry and molecular test in the classification of lung cancers.

### Biography

Qing Kay Li is an internationally recognized expert in the field of Cytopathology and Co-PI in Johns Hopkins Biomarker Discovery Center. She provides Diagnostic Surgical Pathology Service at Johns Hopkins Bayview Medical Center and conducts research in the field of novel biomarkers in lung and prostate cancers. Her work has been presented at many national/international meetings. She also serves as an Editorial Board Member for several journals, Committee Member of the American Society of Cytopathology and study sections of government agents and private organizations. She has more than 80 publications and book chapters. She is also the Co-Editor of "Diagnostic Cytopathology Board Review and Self Assessment".

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