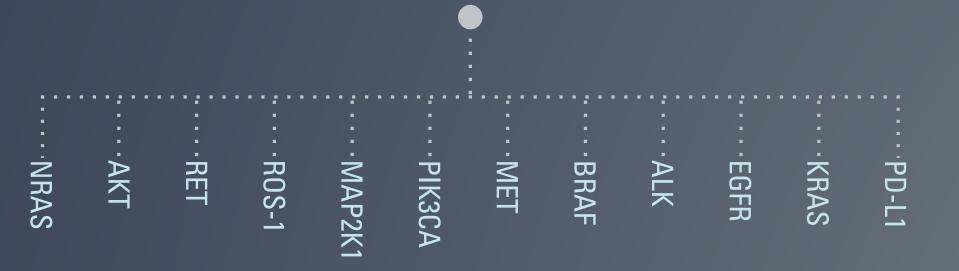
SCIENCE HAS ADVANCED¹

Scientific discoveries have identified several types of lung cancer, many of which can be identified using biomarkers

LUNG CANCER BIOMARKERS

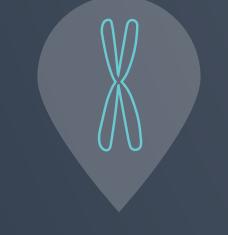


4

BIOMARKERS CAN BE MEASURED⁴

There are three main biomarker tests:

CHROMOSOME



Identify
abnormal
changes within
chromosomes

GENETIC



Search for extra gene copies, missing genes, or incorrectly placed genes



BIOCHEMICAL

Determine if there are too many abnormal proteins or if they are overactive

BIOMARKERS MATTER³

They can help doctors:



DETECT & DIAGNOSE



INFORM on prognosis



 PREDICT which treatments may work best for a patient



MONITOR response to treatment in some cancers

5 IMPORTANT
FACTS ABOUT
LUNG CANCER
BIOMARKERS

DIFFERENT PEOPLE'S TUMORS HAVE DIFFERENT BIOMARKERS^{1,2,3}

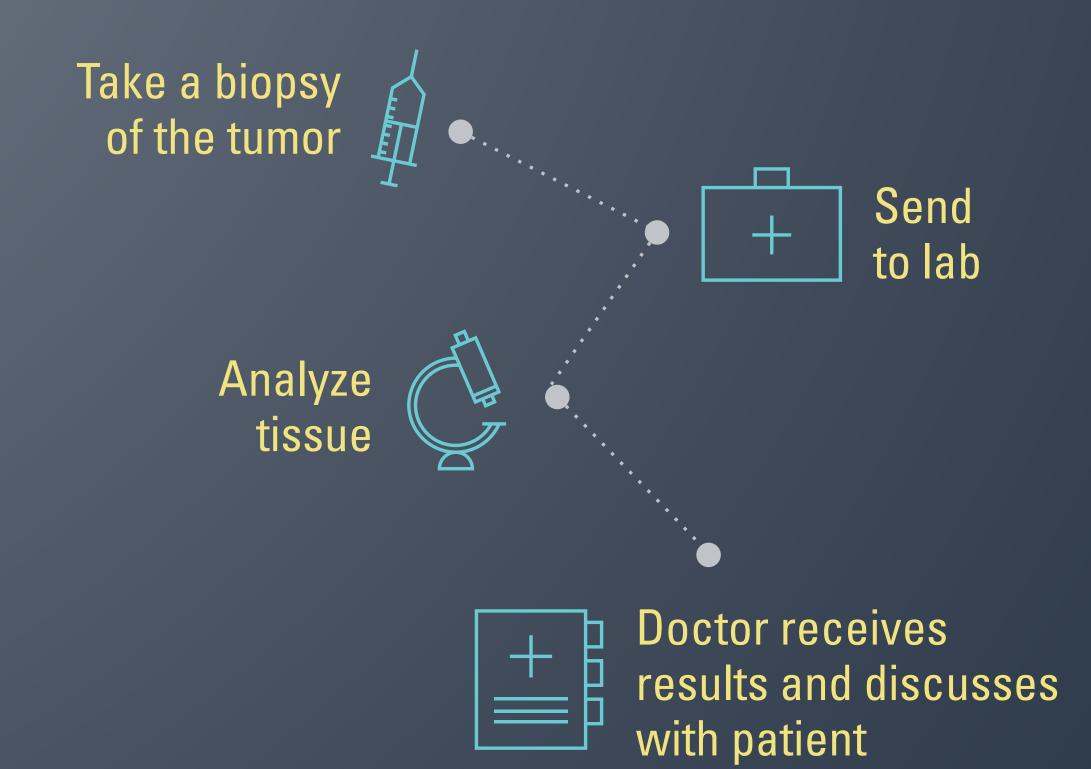
Biomarkers commonly found in non-small cell lung cancer:

ALK EGFR

KRAS PD-L1

5

THERE ARE FOUR KEY STEPS WHEN TESTING FOR BIOMARKERS³



References:

- 1. Korpanty, G.I., & al. 2014. Frontiers in oncology. Biomarkers that currently affect clinical practice in lung cancer: EGFR, ALK, MET, ROS-1, and KRAS.
- 2. Garon, Edward B. & al. N Engl J Med 2015. Pembrolizumab for the treatment of non-small-cell lung cancer; 372:2018-2028
- 3. National Cancer Institute, 2015. Tumor Markers. What are tumor markers? Available online: http://www.cancer.gov/about-cancer/diagnosis-staging/diagnosis/tumor-markers-fact-sheet#q1 (Accessed March 2016)
- 4. National Comprehensive Cancer Network. Patients and caregivers resources: Biomarker testing. Available online: http://www.nccn.org/patients/resources/life_with_cancer/treatment/biomarker_testing.aspx (Accessed March 2016)
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