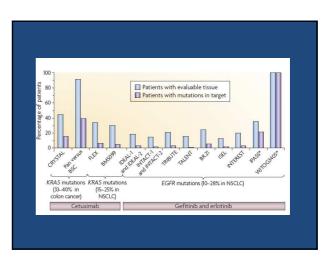
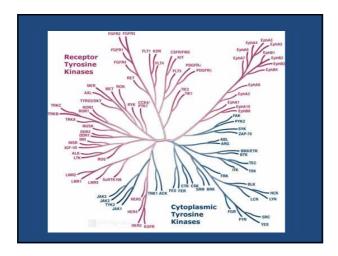
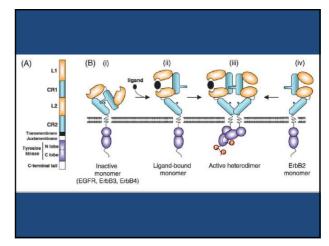
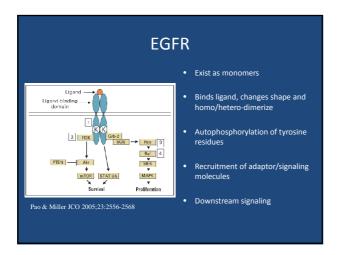


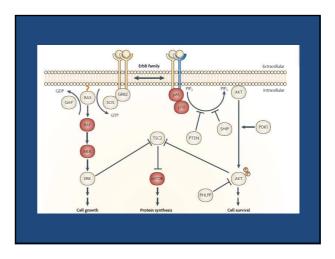
Trial	Туре	Drugs	Enrollment criteria	RR (%) (EGFR TKI versus other)	Median time to treatment failure (months) (EGFR TKI versus other therapy)	Re
Gefitinib						
IDEAL-1, IDEAL-2	Phase II	Gefitinib (250 mg versus 500 mg)	Unselected previously treated NSCLC	18.4–19.0 (IDEAL-1) and 9–12 (IDEAL-2)	2.7–2.8 (IDEAL-1) and 1.5–1.7 (IDEAL-2)	
ISEL	Phase III	Gefitinib versus placebo	Unselected previously treated NSCLC	8.0 versus 1.3	3.0 versus 2.6	
INTACT-1, INTACT-2	Phase III	Chemotherapy ± gefitinib (250 mg versus 500 mg)	Unselected chemotherapy-naive NSCLC	50.3-51.2 versus 47.2 (INTACT-1) and 30 versus 28.7 (INTACT-2)	5.5–5.8 versus 6.0 (INTACT-1) and 4.6–5.3 versus 5.0 (INTACT-2)	1
INTEREST	Phase III	Gefitinib versus docetaxel	Unselected previously treated NSCLC	9.1 versus 7.6	2.2 versus 2.2	1
IPASS	Phase III	Gefitinib versus chemotherapy	East Asian never or light smokers with chemotherapy-naive lung adenocarcinoma	43.0 versus 32.2* 71.2 versus 47.3*	5.7 versus 5.8* 9.5 versus 6.3*	
WJTOG3405	Phase III	Gefitinib versus chemotherapy	Japanese EGFR-mutant chemotherapy-naive NSCLC	62.1 versus 32.2	9.2 versus 6.3	
NEJ002	Phase III	Gefitinib versus chemotherapy	Japanese EGFR-mutant chemotherapy-naive NSCLC	73.7 versus 30.7	10.8 versus 5.4	
Erlotinib						
NA	Phase II	Erlotinib	NSCLC with BAC features	22	4	
BR.21	Phase III	Erlotinib versus placebo	Unselected previously treated NSCLC	8.9 versus <1	2.2 versus 1.8	
TALENT	Phase III	Chemotherapy ± erlotinib	Unselected chemotherapy-naive NSCLC	31.5 versus 29.9	6.4 versus 6.0	1
TRIBUTE	Phase III	Chemotherapy ± erlotinib	Unselected chemotherapy-naive NSCLC	21.5 versus 19.3	5.1 versus 4.9	1
SLCG	Single arm	Erlotinib	Spanish EGFR-mutant NSCLC	70.6	14	

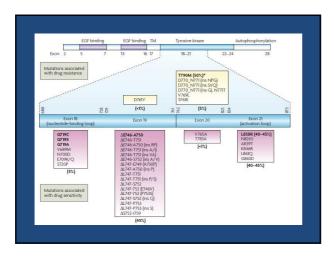


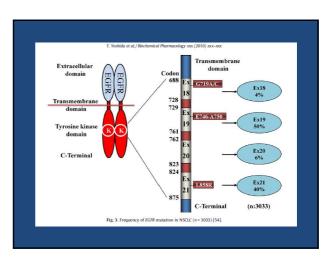






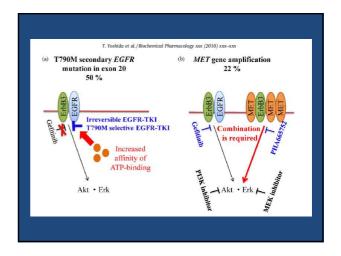




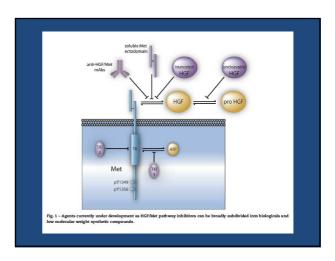


INTERESTing Biomarker to Select IDEAL Patients for Epidermal Growth Factor Receptor Tyrosine Kinase Inhibitors: Yes, for *EGFR* Mutation Analysis, Others, I PASS

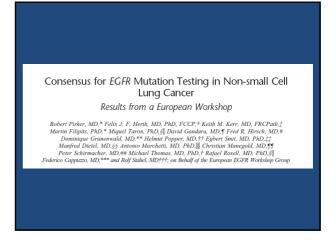
\*\*Bamaswamy Govindan, Division of Oncology, Department of Medicine, and the Alvin J Siteman Cancer Center at Washington University School of Medicine, St Louis, MO







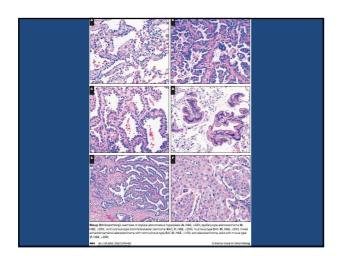


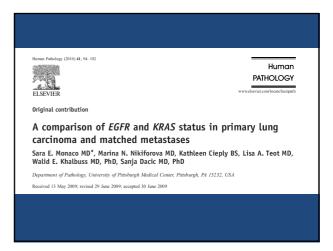


## Can Cytology Samples Be Used?

Cytology samples may be suitable for analysis but further research is needed to fully understand the clinical reliability of mutational data obtained from these samples. Until then, clinicians should be encouraged to provide tissue biopsy samples whenever possible.

in NSCLC	
Which patient?	NSCLC patients <sup>a</sup>
Time point	At diagnosis
	When possible at disease progression
Sample source	Most easily accessible
	Biopsy preferred over cytology
Fixation	10% neutral-buffered formalin
	Bouin's fluid should not be used
Tumor cell content	≥50% Tumor cells for DNA sequencing
	Lower % acceptable with higher sensitivity techniques
EGFR mutation analysis method	No gold standard yet
Report to include	Detail of biopsy sample and tissue extracted
	Type of mutation analysis
	Mutation present/absent
	Interpretation
prevalence of EGFR mutation in del neuroendocrine carcinomas, and mucin- is effectively zero. 45 A pragmatic ap- patients with a confident diagnosis of t	





Clinical Activity Observed in a Phase 1 Dose-Escalation
Trial of an Oral
MET and ALK Inhibitor,
PF-02341066

EL Kwak¹, DR Camidge², J Clark¹, GI Shapiro³, RG Maki⁴,
MJ Ratain⁵, B Solomon⁶, Y-J Bang², S-H Ou⁶, R Salgia⁵

1. Massachusetts General Hospital
2. University of Colorado Cancer Center
3. Dans-Farber Cencer Institute
4. Memorial Sloan-Kettering Cancer Center
8. University of California at Invine
9. University of California at Invine
9. University of California at Invine

