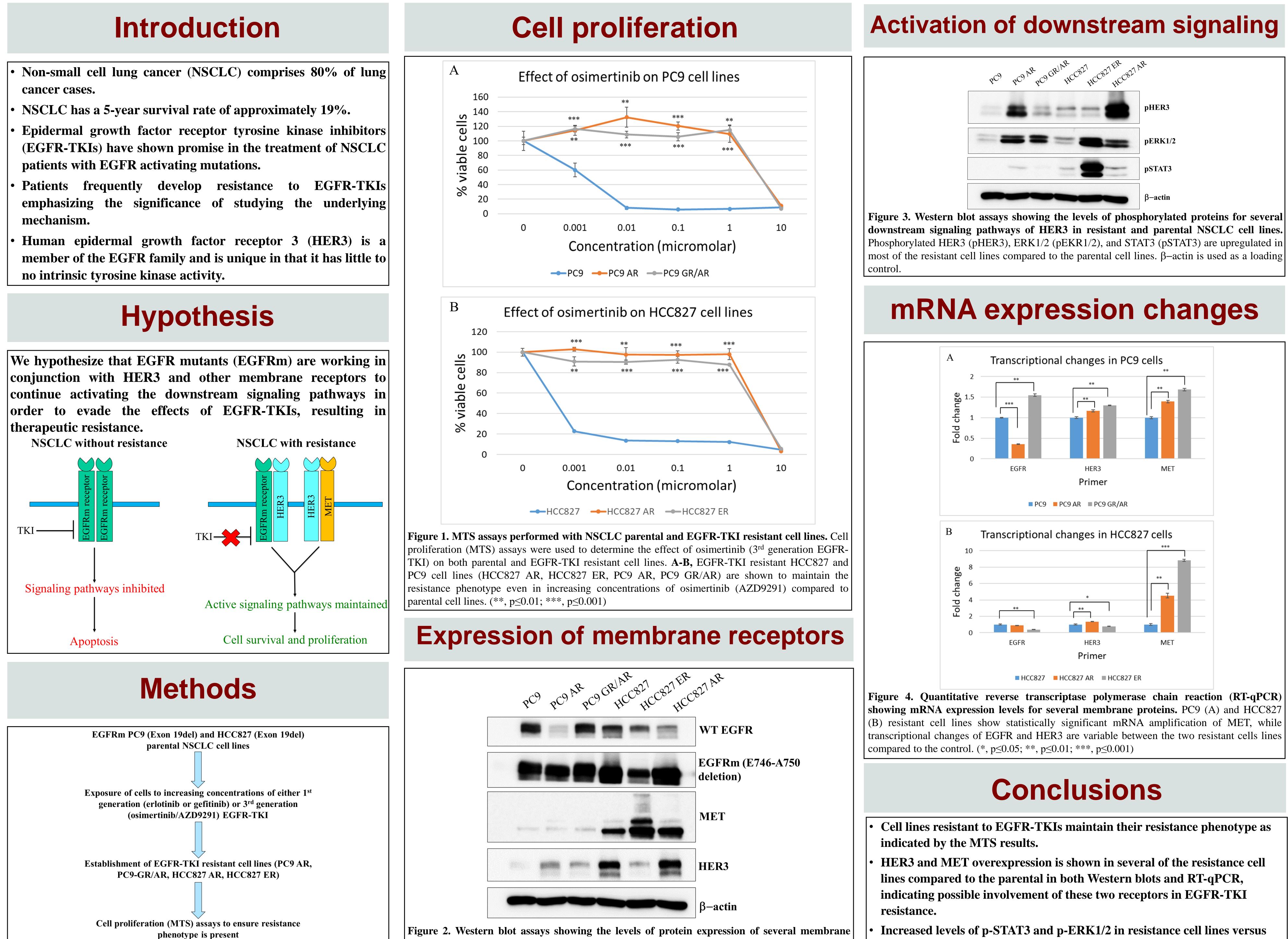
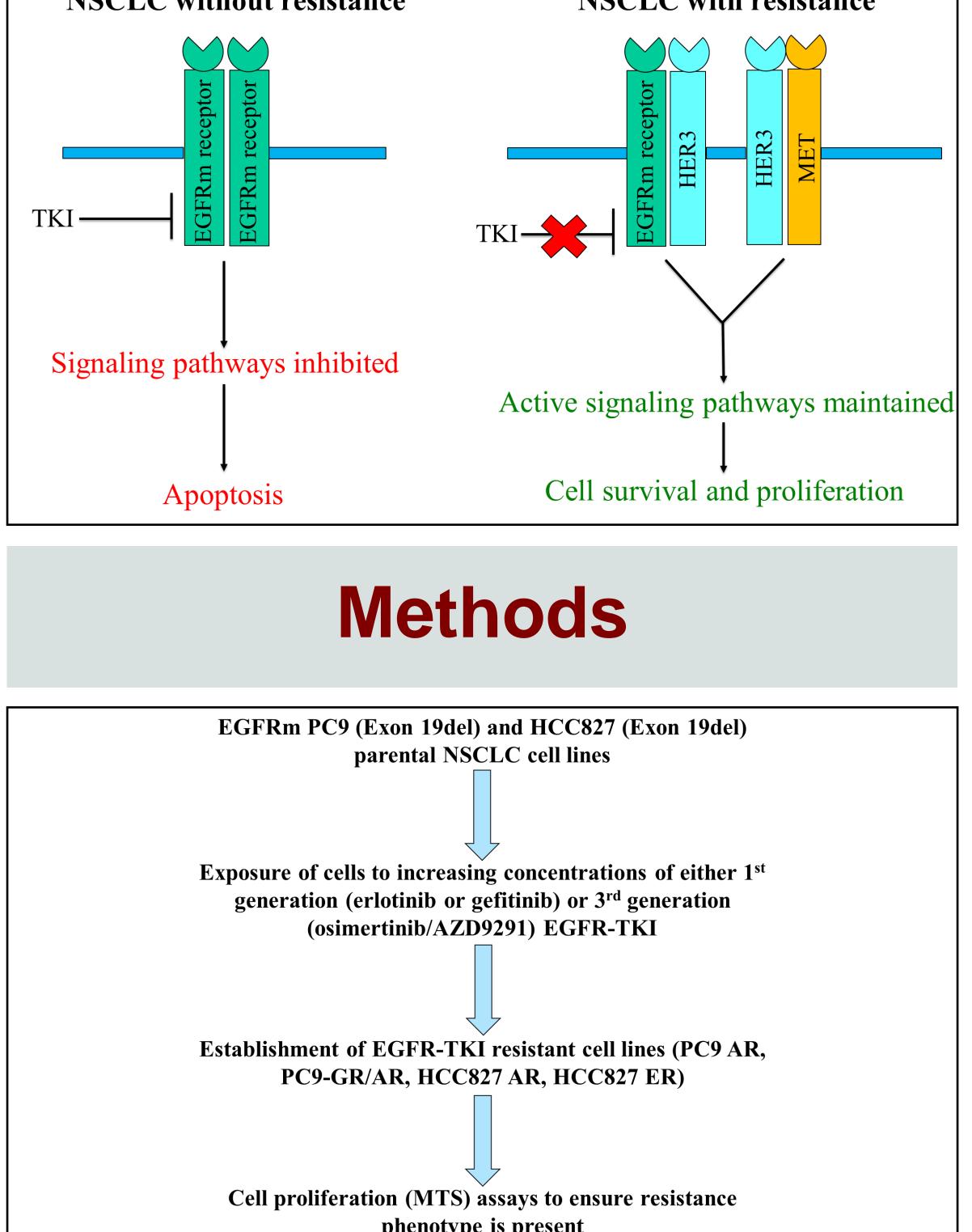
Investigating the role of HER3 in the LSU resistance to EGFR tyrosine kinase **NEW ORLEANS** School of Medicine inhibitors in non-small cell lung cancer Margaret Larsen, Hui Lyu, Bolin Liu

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Western blot and quantitative reverse transcriptase polymerase chain reaction (RT-qPCR) performed

receptors in resistant and parental NSCLC cell lines. Wild-type EGFR (WT EGFR) levels vary among the cell lines, while mutant EGFR (EGFRm) levels remain relatively constant. Mesenchymalepithelial transition (MET) protein amplification is seen strongly with HCC827 resistant cell lines. HER3 levels increase in PC9 resistant cell lines, while they stay the same or decrease in HCC827 resistant cell lines. β -actin is used as a loading control.



a way to compromise the efficacy of EGFR-TKIs.

Future studies will continue to define the role of HER3-mediated signaling in the resistance to EGFR-TKIs in NSCLC.

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