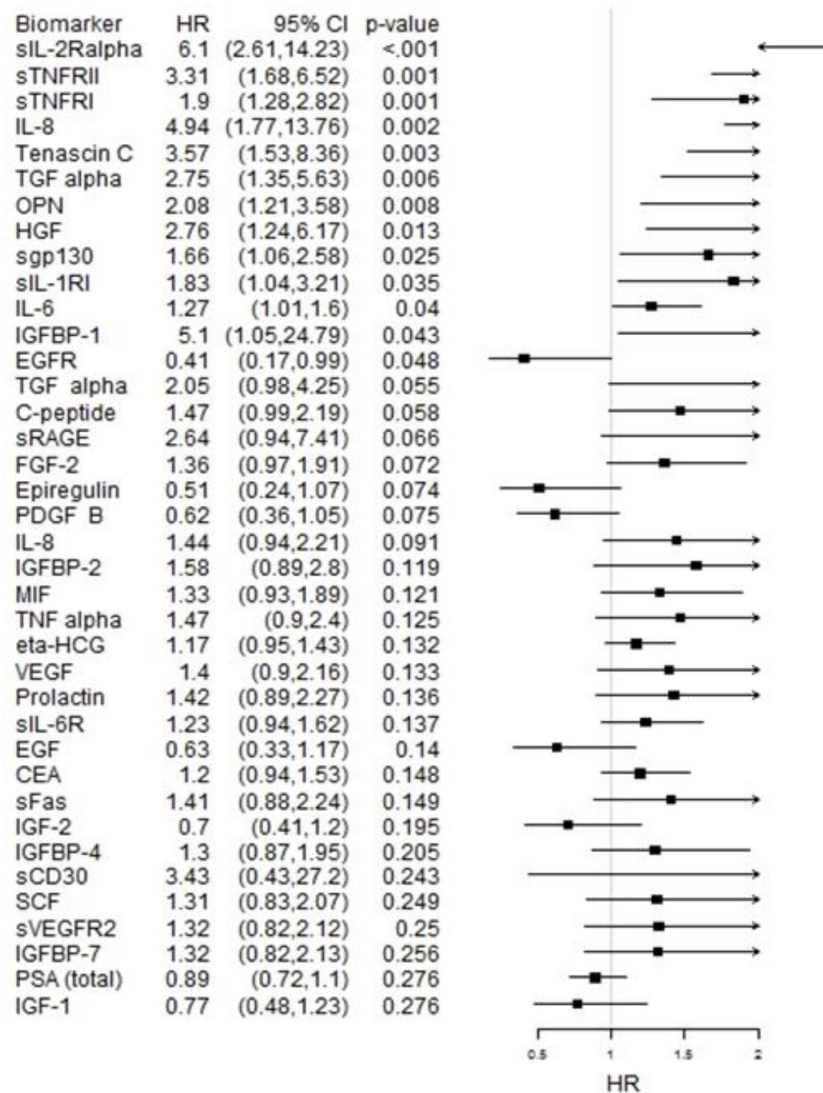
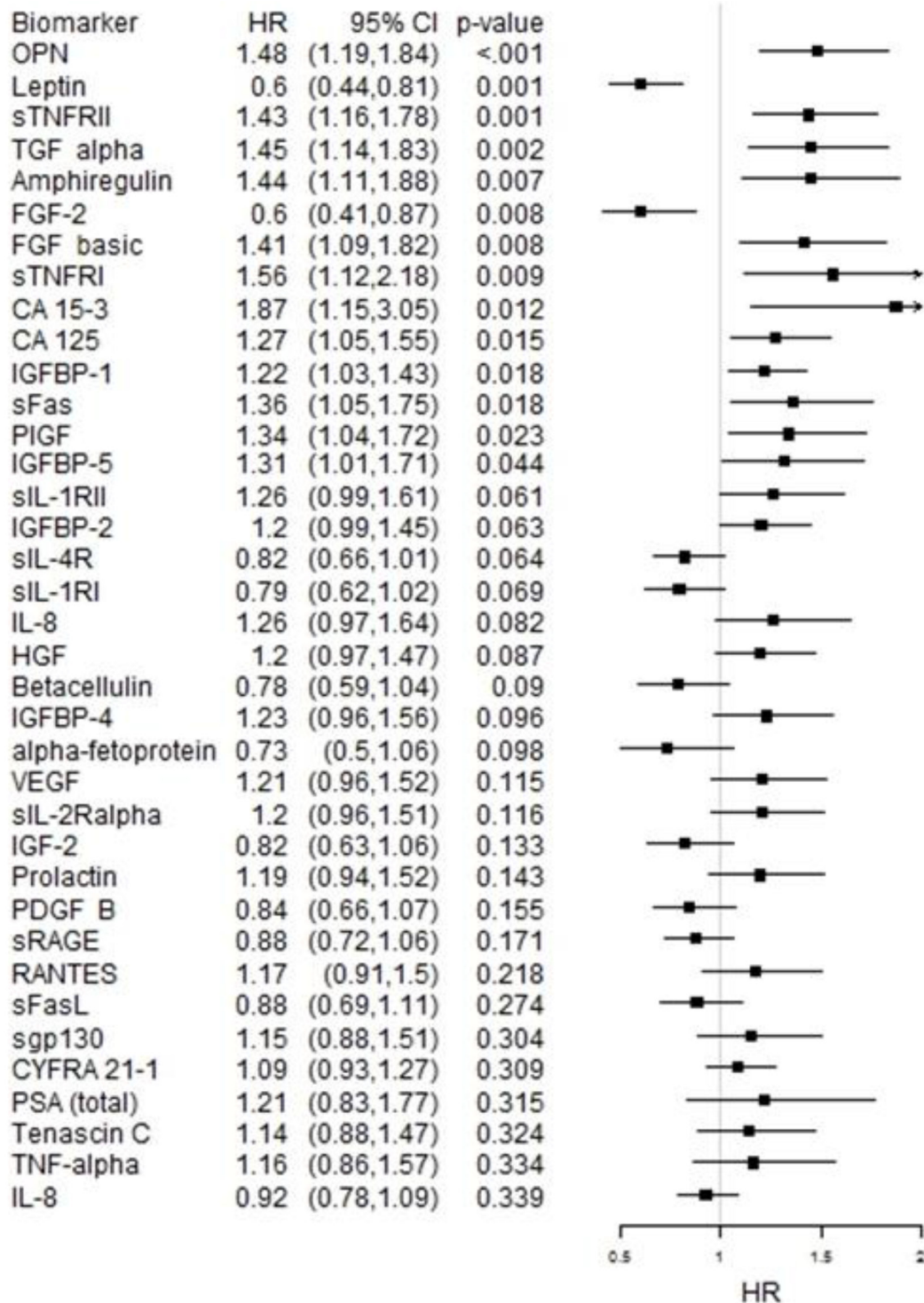


Differential expression of circulating biomarkers of tumor phenotype and outcomes in previously treated non-small cell lung cancer patients receiving erlotinib vs. cytotoxic chemotherapy

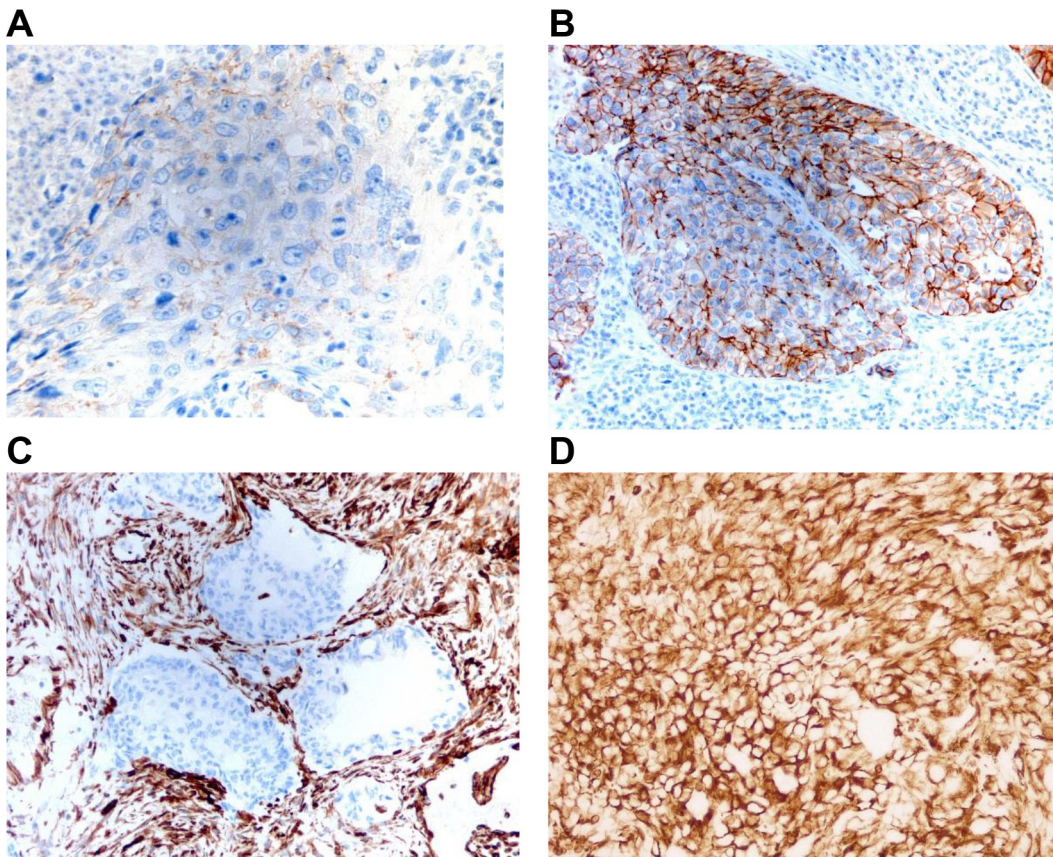
SUPPLEMENTARY FIGURES



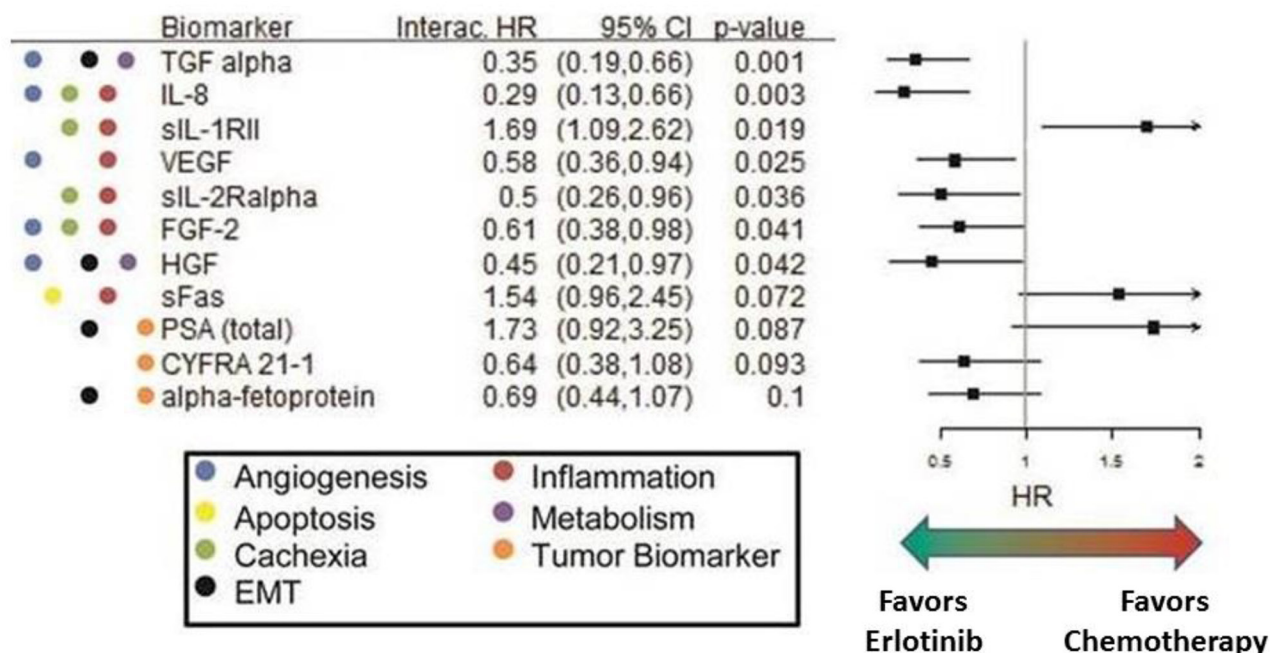
Supplementary Figure 1: Forest plot of Cox PH regression analysis findings for progression-free survival in the chemotherapy cohort. Hazard ratios (HR), confidence intervals (CI) and p-values are provided for each biomarker.



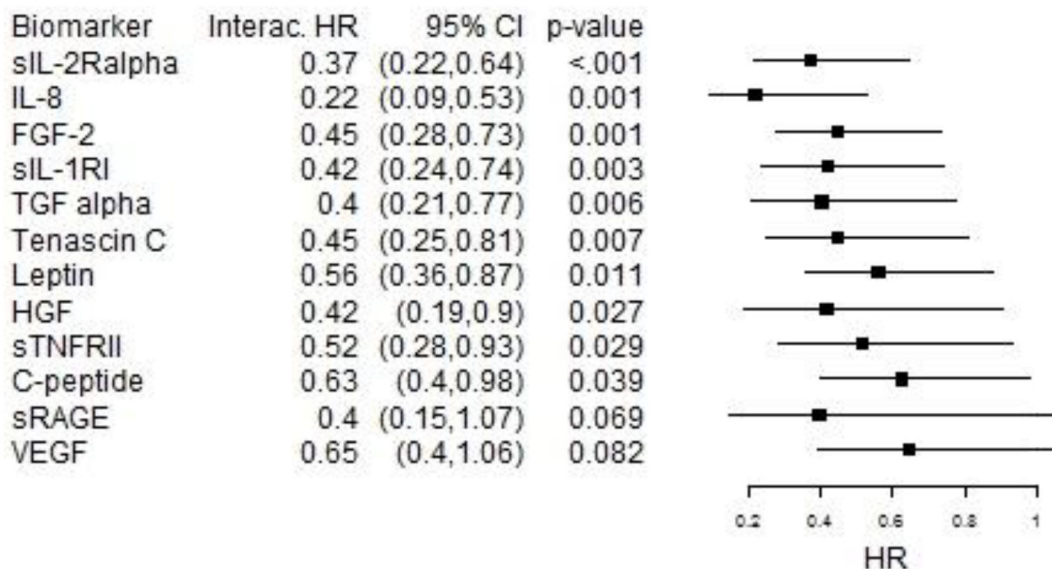
Supplementary Figure 2: Forest plot of Cox PH regression analysis findings for progression-free survival in the erlotinib cohort. Hazard ratios (HR), confidence intervals (CI) and p-values are provided for each biomarker.



Supplementary Figure 3: Representative immunostaining for E-cadherin and vimentin. Sections demonstrating the typical images for E-cadherin “low” (panel A), E-cadherin “high” (Panel B), vimentin “low” (Panel C) and Vimentin “high” (Panel D). Staining intensity and distribution for each specimen were recorded in a minimum of 25 randomly selected fields (x400 magnification) along a serpentine pattern using a 3-point intensity-based scoring system, defined as 0, negative; 1, weak; and 2, strong. The percentage of cells staining positive at each of these intensities was recorded for each field evaluated and ultimately averaged to generate values characteristic of the observed staining for each case. A final score was then calculated as the sum of the fractions positive in each of the intensity scores multiplied by the average frequency.



Supplementary Figure 4: Biomarker-Interaction analysis findings presented in forest plot format for overall survival. Hazard ratios (HR), confidence intervals (CI) and p-values are provided along with examples of known biological pathways/ processes involvement for each biomarker. This analysis assigns the differential associations of biomarker levels with the hazard of outcome events in the erlotinib cohort relative to the single-agent chemotherapy patients.



Supplementary Figure 5: Biomarker-Interaction analysis findings presented in forest plot format for progression-free survival. Hazard ratios (HR), confidence intervals (CI) and p-values are provided for each biomarker. High circulating levels of sIL-2R α , IL-8, FGF-2, sIL-1RI, TGF- α , Tenascin C, leptin, HGF, sTNF-RII and C-peptide were associated (interaction HR=0.37, 0.22, 0.45, 0.42, 0.40, 0.45, 0.56, 0.42, 0.52, and 0.63, respectively; all p<0.05) with a relatively higher risk of progression (PFS) in the chemotherapy cohort.