Supplementary Figure 1. Patient and tumour characteristics of patients with breast cancer
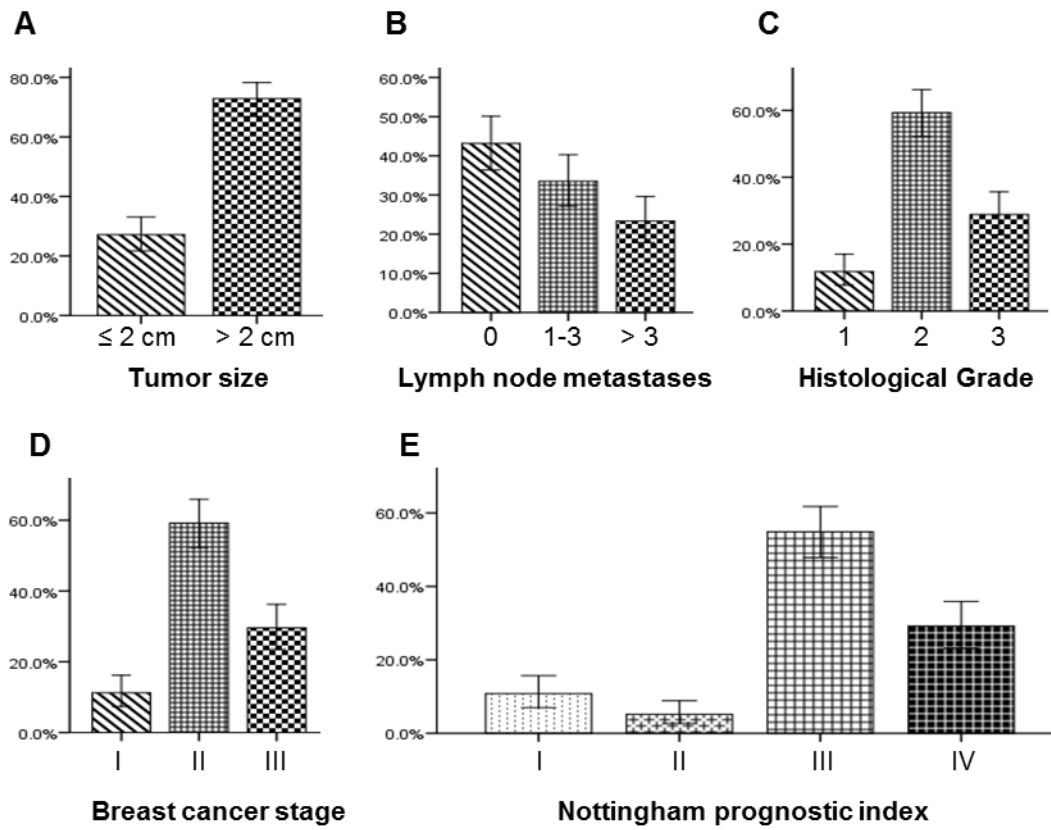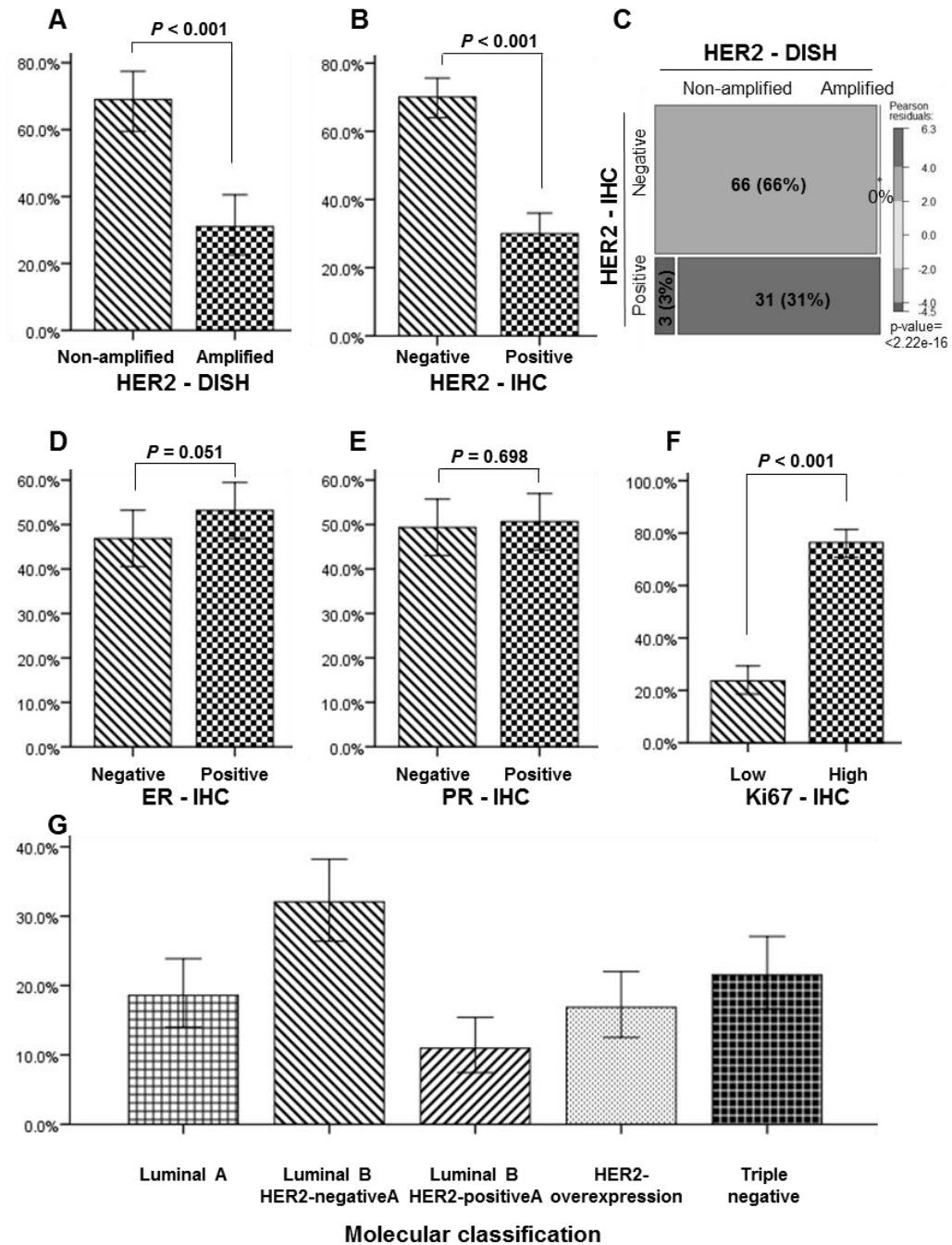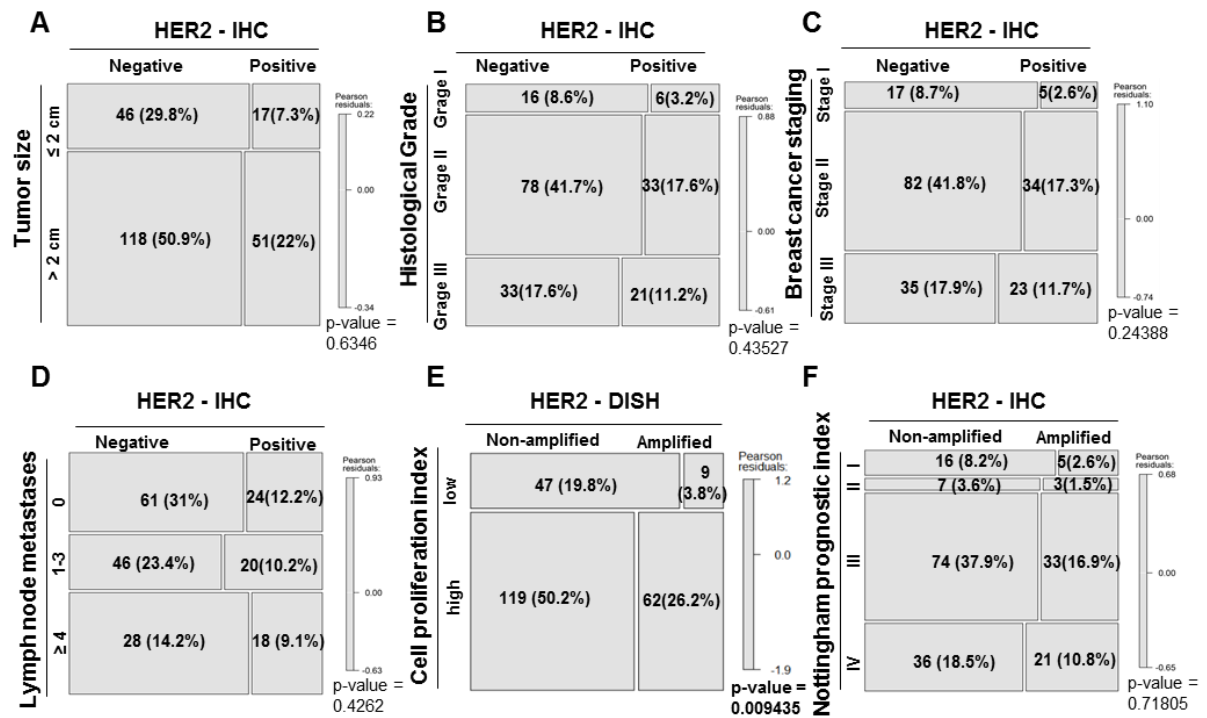
A. Tumor size; **B.** Lymph node metastases; **C.** Histological grade; **D.** Breast cancer stage; **E.** Nottingham prognostic index
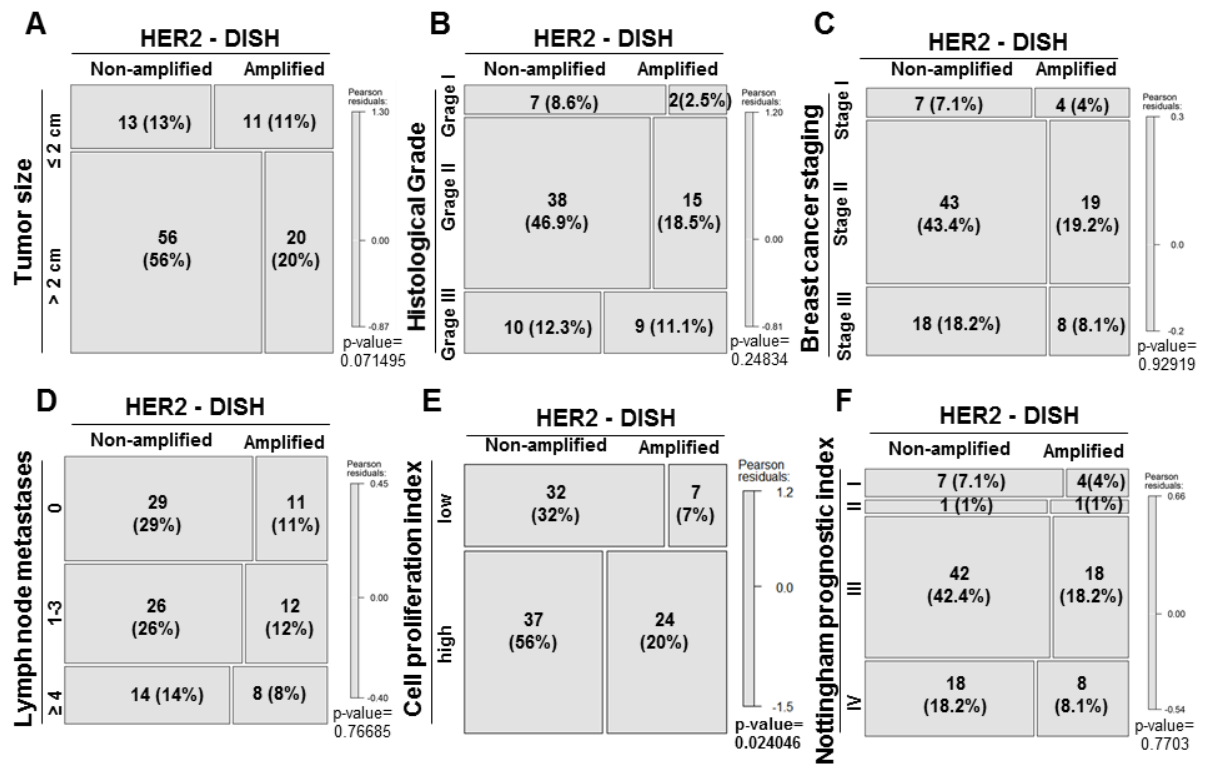
Supplementary Figure 2. Molecular feature of patients with breast cancer

A. Dual color in situ hybridization (DISH) analysis of human epidermal growth factor receptor 2 (HER2) ; **B.** Immunohistochemical (IHC) analysis of HER2; **C.** Correlation between HER2 DISH and IHC; **D.** IHC analysis of ER; **E.** IHC analysis of PR; **F.** IHC analysis of Ki67; **G.** Molecular classification of breast cancer

Supplementary Figure 3. Correlation of HER2 protein overexpression and clinicopathological characteristics in breast cancer patients.

Correlation between HER2 protein expression by IHC and tumor size (**A**), histological grade (**B**), breast cancer staging (**C**), lymph node metastases (**D**), cell proliferation index (**E**), and Nottingham prognostic index (**F**) in breast cancer patients.

Supplementary Figuge 4. Correlation of HER2 gene amplification and clinicopathological characteristics in breast cancer patients

Correlation between HER2 gene amplification by DISH and tumor size **(A)**, histological grade **(B)**, breast cancer staging **(C)**, lymph node metastases **(D)**, cell proliferation index **(E)**, and Nottingham prognostic index **(F)** in breast cancer patients.