

Figure S1 Typical immunohistochemistry images of the protein expression of the *STAT* family from the HPA database. *STAT1*, *STAT2*, *STAT3*, and *STAT6* showed low staining in normal breast tissues, but high staining in breast cancer ($P < 0.05$). Breast cancer tissues exhibited lower protein expression levels of *STAT5A* and *STAT5B* compared with normal tissues. HPA, Human Protein Atlas; *STAT*, signal transducer and activator of transcription.

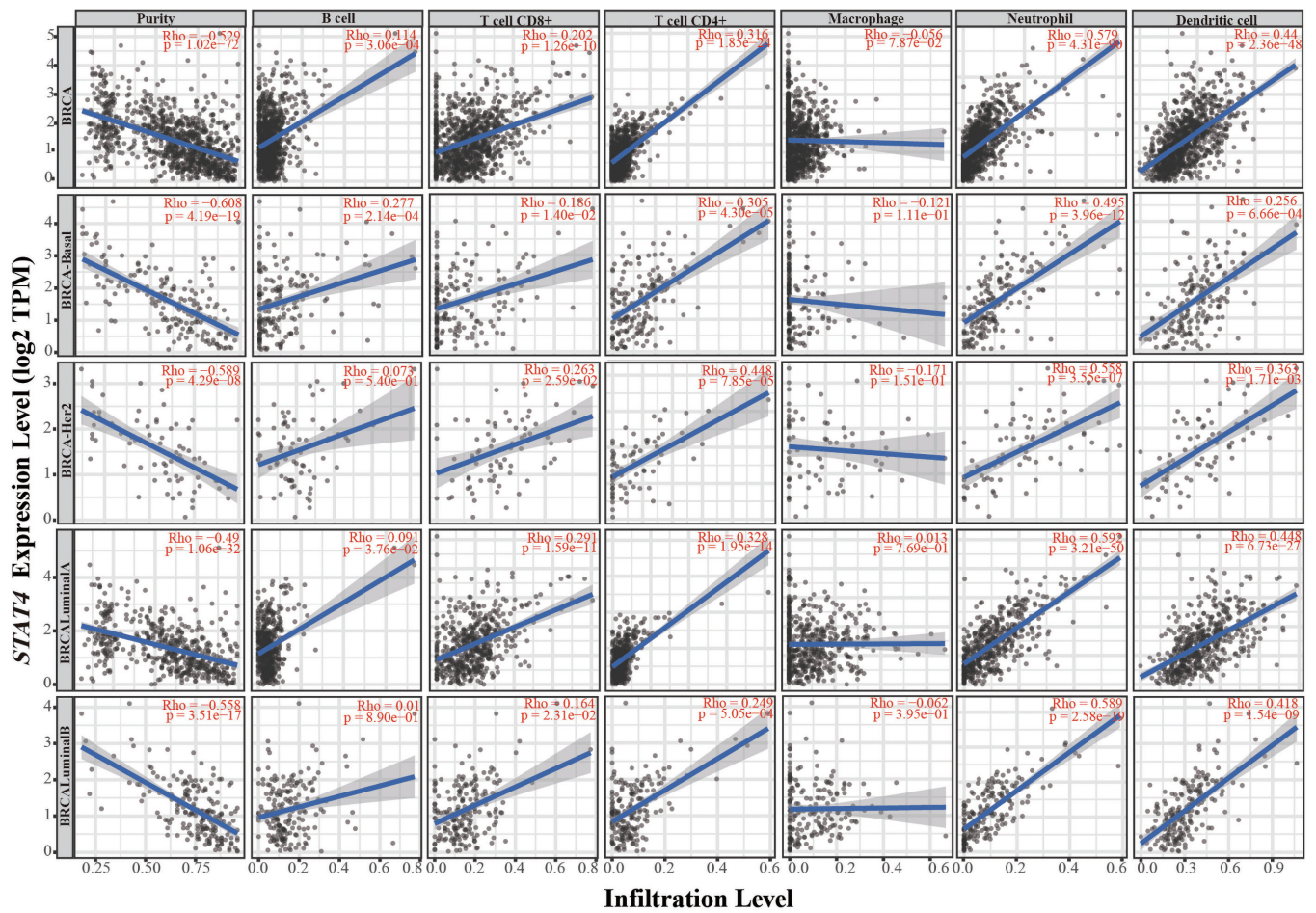


Figure S2 Correlations between differential immune cell infiltration (TIMER) and the expression level of STAT4 among the different breast cancer subtypes. STAT, signal transducer and activator of transcription; TIMER, Tumor Immune Estimation Resource; TPM, transcripts per million.