Supplementary Figure Legends

Figure S1. SUM190 IBC cells exhibit mesenchymal/epithelial plasticity and are enriched in CSC-like cells by autocrine signaling. **A,** Immunoblot of mesenchymal and epithelial markers for SUM190 IBC cells grown in the absence or presence of its CM (30%). Representative results of three studies shown. **B,** Invasion assay of SUM190 cells treated as in (**A**). Average of three independent biological repeats, mean ± SEM; ***P<0.001. **C**, Representative flow cytometry data for SUM190 cell CSCs determined by $CD44^+/CD24^-$ gating. **D,** Percentage of $ALDH^+$ CSCs in SUM190 cells grown in the absence or presence of SUM190 CM. Average of three independent biological repeats. Data are mean ± SEM.

Figure S2. Promotion of IBC mesenchymal and CSC-like phenotypes by paracrine signaling. Immunoblot for EMT markers in (**A**) SUM190 and (**B**) IBC80 cells cultured alone (Non-CC) or co-cultured with THP-1 monocytes (CC) in transwells with a 0.4 μm pore size membrane. Representative results of three independent studies. **C,** Invasion assay of SUM190 cells treated as above. Average of three independent biological repeats, mean ± SEM; ***P<0.001.

Figure S3. Exogenous addition IL-8 and GRO cytokines promotes phosphorylation of STAT3 and EMT and CSC phenotypes in SUM149 IBC cells. **A**, Recombinant IL-8 (50 ng/ml) and GRO isoform proteins (100, 200, 300 ng/ml) were added to media of IBC SUM149 cells overnight and STAT3 Y705 pSTAT3 immunoblot studies carried out. Representative results of three independent studies shown. **B,** Representative immunoblot of three studies for STAT3 phosphorylation in SUM49 cells treated with 50 ng/ml IL-8 overnight. **C,** Representative immunoblot of three studies for EMT and CSC marker expression in SUM49 cells treated with 50 ng/ml IL-8 overnight.

Figure S4. IBC cells secrete factors that recruit monocytes and induce monocyte differentiation to M2-like polarized macrophages. **A,** Transwell migration of primary human monocytes to CM from IBC and non-IBC cell lines, mean ± SEM from three studies; *P<0.05, ****P < 0.0001. **B,** Cytokine and chemokine array of the CM of SUM149 cells. Established monocyte chemo-attractants are highlighted in black and less-established chemo-attractants are in grey. **C,** Representative flow cytometric analysis from three studies of macrophage differentiation and M1/M2 polarization markers in THP-1 monocytes grown in the absence or presence of 30% CM from the indicated cell lines. **D**, Immunohistochemical staining of representative IBC tumor specimens (n = 45) and companion normal breast epithelium (n = 45) for the M2 macrophage marker CD163. Scale bar 50 μm.