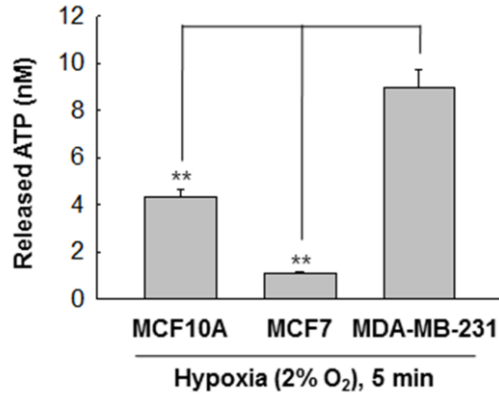
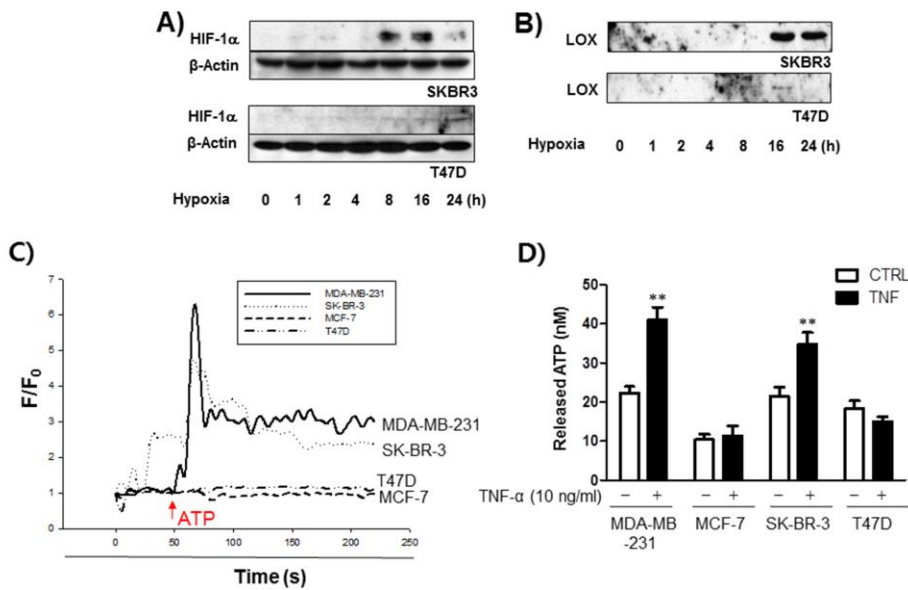


P2Y₂R activation by nucleotides released from the highly metastatic breast cancer cell contributes to pre-metastatic niche formation by mediating lysyl oxidase secretion, collagen crosslinking, and monocyte recruitment

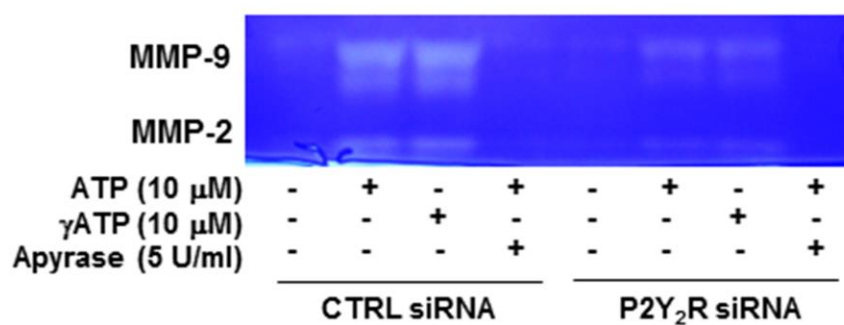
Supplementary Material



Supplemental Fig. 1: High metastatic breast cancer cell MDA-MB-231 releases high level of ATP compared to low metastatic breast cancer cell MCF-7 or normal epithelial breast cell MCF10A under hypoxic condition.



Supplemental Fig. 2: Highly metastatic breast cancer cell SK-BR-3 dramatically induced HIF-1 α expression and LOX release by hypoxia. However T47D showed low ATP level and very weak HIF-1 α expression and LOX release by hypoxia. In parallel, SK-BR-3 showed an elevated [Ca²⁺]_i levels in response to ATP; however T47D did not elevate [Ca²⁺]_i levels. Additionally, SK-BR-3 showed an increased ATP level like MDA-MB-231 but T47D did not.



Supplemental Figure 3. ATP as well as γ ATP treatment prominently increased MMPs (especially MMP-9) activity in control siRNA-transfected THP-1 cells but not in P2Y₂R siRNA-transfected THP-1 cells.