IN-VITRO TUMOR MODELS: 3D Insert™-PS scaffolds are ideal for in vitro 3D tumor tissue culture and drug interaction studies

**Breast Cancer Cells**

![Image of breast cancer cell culture](image)

**Differentiation potential of cells cultured in 3D.** MCF-7 human breast cancer cells cultured in 2D (A) and on 3D PS scaffold (B, C). Note the rounded cell structures that form within the scaffold’s 3D environment typical of differentiated cells. Cells were imaged using a light microscope: A-B (100X), C (200X).

![Graph showing cell viability](graph)

**Effects of tamoxifen on MCF-7 cells grown in 2D and 3D.** MCF-7 human breast cancer cells were treated with the indicated concentrations of tamoxifen. Cell viability after tamoxifen treatment was measured by MTT assay.

**Hepatocarcinoma Cells**

![Image of hepatocarcinoma cell culture](image)

**Hepatocytes form 3D aggregates.** Human HepG2 carcinoma cells were cultured in 2D (A) and on 3D PS scaffolds (B). Cells were imaged on day 1 using a light microscope (100X)

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