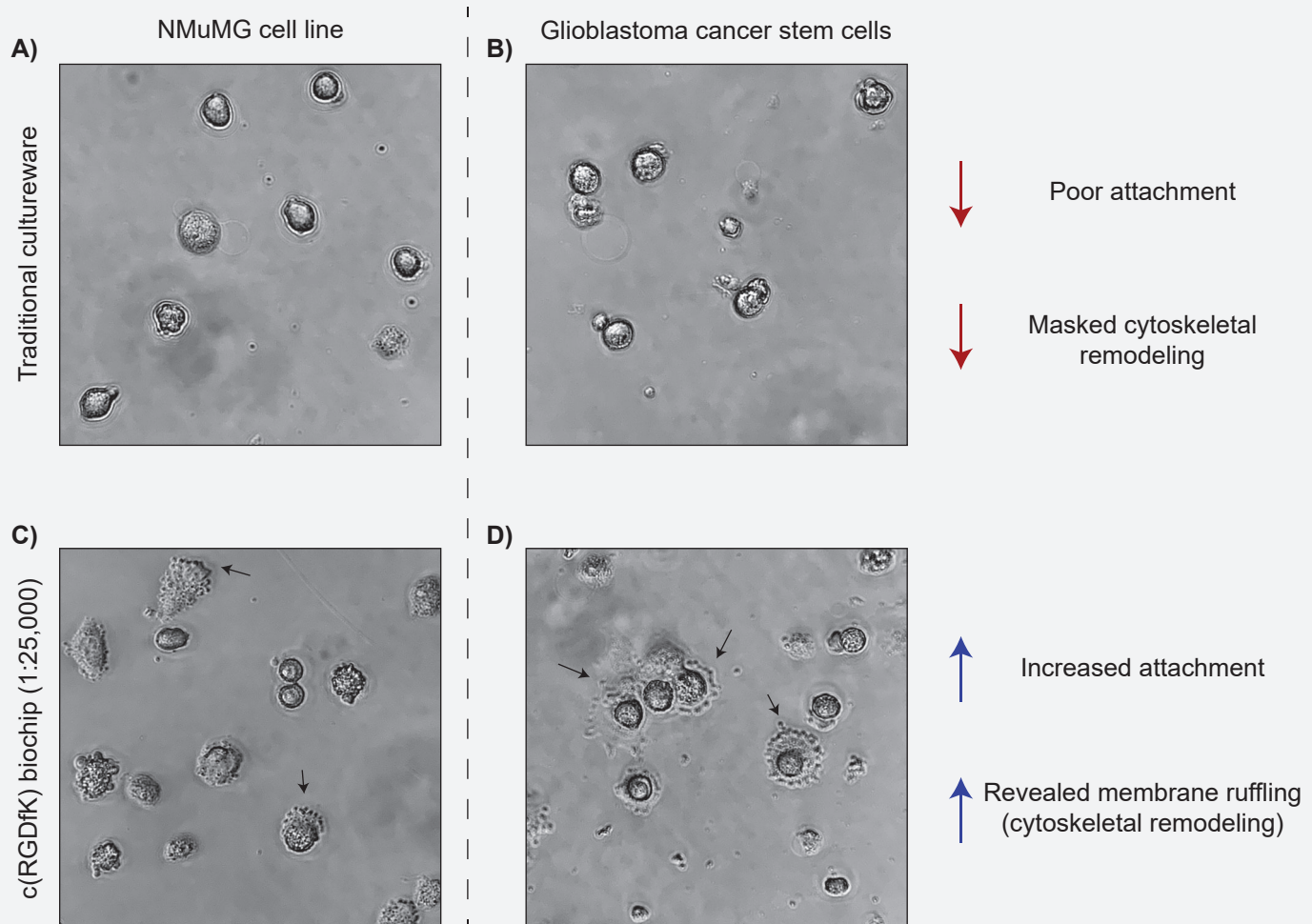


Epithelial to mesenchymal transition (EMT) is a naturally occurring process during embryonic development, tissue fibrosis, and wound healing. Furthermore, EMT is associated with cancer progression and metastasis as epithelial cells lose apical-basal polarity, acquire increased cell motility, and undergo extensive cytoskeletal remodeling. Detectable changes in cell morphology associated with increased motility, including membrane ruffling, allow researchers to quickly and in real-time make decisions about their EMT experiment prior to fixation and labeling. Tunable spacing between RGD-peptides permits broad applicability across cell types.

- Label-free rapid assessment of mesenchymal phenotypes
- Precise varied ligand spacing
- Reduced variability
- Surface ligand activity verified by SPR



**Figure 1) Increased motility-associated phenotypes detected on Nanocrine c(RGDfK) Surface Chemistry Biochips.** NMuMG cells were treated with TGF- $\beta$  and human glioblastoma cancer stem cells were treated with FBS for 48 hours prior to being plated on traditional multiwell cultureware or c(RGDfK) surface chemistry biochips. Cells were imaged 3 hours after plating. **A, B)** Cells plated on traditional cultureware. **C, D)** Cells plated on 1:25,000 molecular density c(RGDfK) Surface Chemistry Biochips (Cat. #N1-SRG4-4).