ADVANCED HEALTHCARE MATERIALS

Supporting Information

for *Adv. Healthcare Mater.*, DOI 10.1002/adhm.202300671

Development of a Synthetic, Injectable Hydrogel to Capture Residual Glioblastoma and Glioblastoma Stem-Like Cells with CXCL12-Mediated Chemotaxis

*Zerin Mahzabin Khan, Jennifer M. Munson, Timothy E. Long, Eli Vlaisavljevich and Scott S. Verbridge**

Supporting Information

Development of a Synthetic, Injectable Hydrogel to Capture Residual Glioblastoma and Glioblastoma Stem-like cells with CXCL12-mediated Chemotaxis

*Zerin Mahzabin Khan, Jennifer M. Munson, Timothy E. Long, Eli Vlaisavljevich, Scott S. Verbridge**

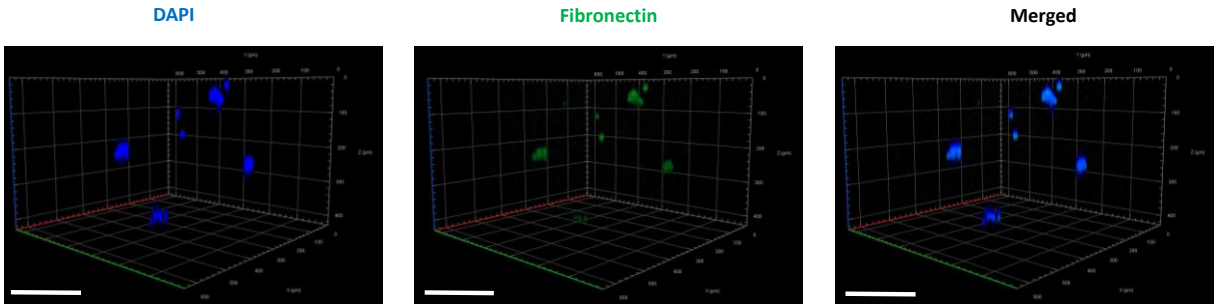

Figure S1. Confocal microscope z-stack images of fibronectin deposition by U251 GBM cells encapsulated in synthetic hydrogels. Cells were encapsulated at a density of 1 x 10^6 cells/mL and cultured in complete DMEM media for 72 hours. Fibronectin deposition observed up to approximately 400 µm deep in synthetic hydrogel. Scale bars represent 200 µm.

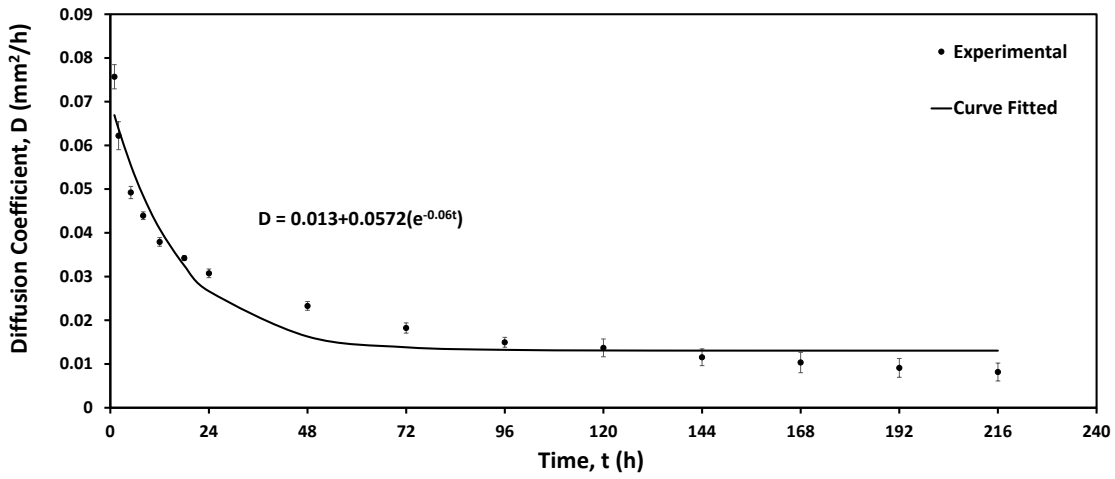

Figure S2. Time varying diffusivity of 10 kDa FITC-dextran loaded into synthetic hydrogels at 5 µg/mL payload concentration. The diffusion coefficients were determined based on experimental data obtained from the cumulative release profile. Experimental data-based diffusion coefficients fit the exponential equation with an R^2 value of 0.952.