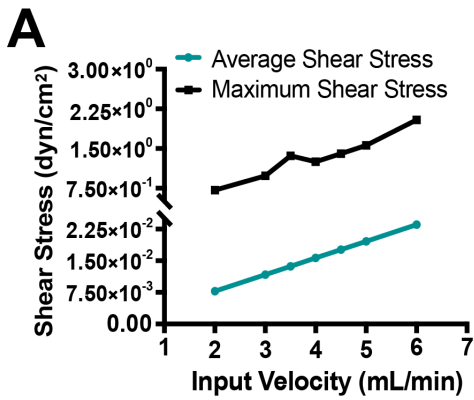


Enhanced extracellular vesicle production and ethanol-mediated vascularization bioactivity via a 3D-printed scaffold-perfusion bioreactor system

Divya B. Patel, Christopher R. Luthers, Max J. Lerman, John P. Fisher, Steven M. Jay

Supplemental Data



B

Input Velocity (mL/min)	Average Shear Stress (dyn/cm ²)	Maximum Shear Stress (dyn/cm ²)
2	0.008	0.716
3	0.012	0.983
3.5	0.014	1.363
4	0.016	1.250
4.5	0.018	1.404
5	0.020	1.559
6	0.024	2.042

Figure S1. Computational fluid modeling results of theoretical shear stresses throughout the scaffold (average and maximum) at varying flow rates shown in (A) the graph and (B) the table.

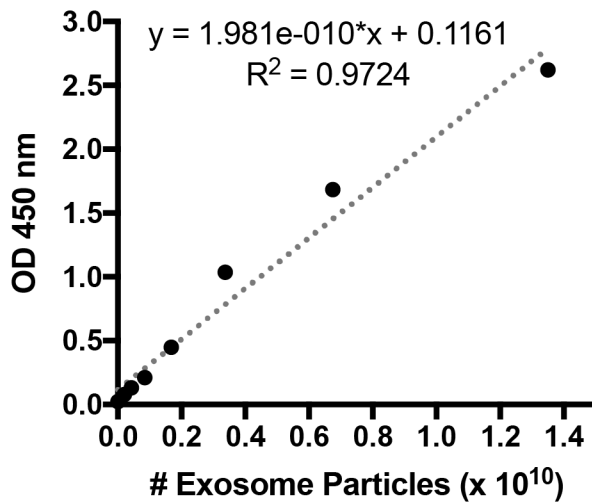


Figure S2. Calibration curves for the number of exosome particles versus OD 450 nm reading of exosomal CD63 standard for data shown in Figure 2D. Equation and R^2 for the line of best fit were determined using linear regression analysis.