

Supplemental Information

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**Restriction of cancer metastatic potential using embryonic stem cells encapsulated in alginate hydrogel microstrands**

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Table S1. Forward and Reverse Primer Sequences for qRT-PCR Analysis.

Target	Forward Sequence (5'→3')	Reverse Sequence (5'→3')
NKD2	AGA TAC ACA TGC CGT ACA CCA C	CGG CAG GTA GTA GCT GAA GG
TGF- $\alpha$	CCC TGC GAA GAC TTG AGA TTT A	GGA GCT TGC AGA GAT GGA TTA G
$\beta$ -actin	AAA GAC CTG TAC GCC AAC ACA GTG CTG TCT	CGT CAT ACT CCT GCT TGC TGA TCC ACA TCT G

Video S1. Effect of ESC-microstrands on metastatic MDA-MB-231 BCC migration. Tracking individual cancer cell movement for four hours demonstrates overall hindered migratory abilities in BCCs after exposure to ESC-microstrands (a) in comparison to non-co-cultured BCCs (b).