Engineering the pre-metastatic niche

Brian A. Aguado^{1,2,#}, Grace G. Bushnell^{3,#}, Shreyas S. Rao⁴, Jacqueline S. Jeruss^{5,*}, and Lonnie D. Shea^{3,*}

Affiliations:

¹Department of Biomedical Engineering, Northwestern University, Evanston, IL 60208, USA

²Simpson Querrey Institute for BioNanotechnology, Northwestern University, Chicago, IL 60611, USA.

³Department of Biomedical Engineering, University of Michigan, Ann Arbor, MI 48105, USA

⁴Department of Chemical and Biological Engineering, University of Alabama, Tuscaloosa, AL 35487, USA

⁵Department of Surgery, University of Michigan, Ann Arbor, MI 48105, USA

*Denotes equal contribution

* Correspondence should be address to L.D.S. (email: ldshea@umich.edu) or J.S.J. (email jjeruss@med.umich.edu)

CONTENTS:

Supplementary Table 1. List of abbreviations and full names for surface markers/receptors, soluble factors, and transcription factors.

Supplementary Table 1. List of abbreviations and full names for surface markers/receptors, soluble factors, and transcription factors.

A. Surface markers/receptors

Abbreviation	Full name
CD105	cluster of differentiation 105
CD106	cluster of differentiation 106
CD11b	cluster of differentiation 11b
CD14	cluster of differentiation 14
CD34	cluster of differentiation 34
CD44	cluster of differentiation 44
CD45	cluster of differentiation 45
CD73	cluster of differentiation 73
EpCAM	Epithelial cell adhesion molecule
F4/80	adhesion G protein-coupled receptor E1
Gr-1	lymphocyte antigen 6 complex, locus G/C (Ly6G/C)
Ly6C	lymphocyte antigen 6 complex
Mac1	macrophage antigen 1
TLR3	toll like receptor 3
VEGFR1	vascular endothelial growth factor receptor 1
VLA-4	very late antigen 4

B. Soluble factors

Abbreviation	Full name
BMP-2	bone morphogenic protein 2
Bv8	prokineticin 2
CCL17	chemokine (C-C motif) ligand 17
CCL2	chemokine (C-C motif) ligand 2
CCL22	chemokine (C-C motif) ligand 22
EPO	erythropoeitin
G-CSF	granulocyte colony stimulating factor
IFNγ	interferon gamma
IL-1	interleukin 1
IL-11	interleukin 11
IL-6	interleukin 6
IL-8	interleukin 8
MMP-1	matrix metalloproteinase 1
S100A6	S100 calcium binding protein A6
S100A8	S100 calcium binding protein A8
S100A9	S100 calcium binding protein A9
SDF-1	stromal derived factor 1
TGF-β	transforming growth factor beta
ΤΝΓα	tumor necrosis factor alpha
VEGF	vascular endothelial growth factor

C. Transcription factors

Abbreviation	Full name
p16	cyclin-dependent kinase inhibitor 2A
p27	cyclin-dependent kinase inhibitor 1B
p38	p38 mitogen activated protein kinase
PRRX1	paired related homeobox 1
SMAD-3	mothers against decapentaplegic homolog 3