

Supplemental Information

Manuscript: Theranostic microbubbles with homogeneous ligand distribution for higher binding efficacy

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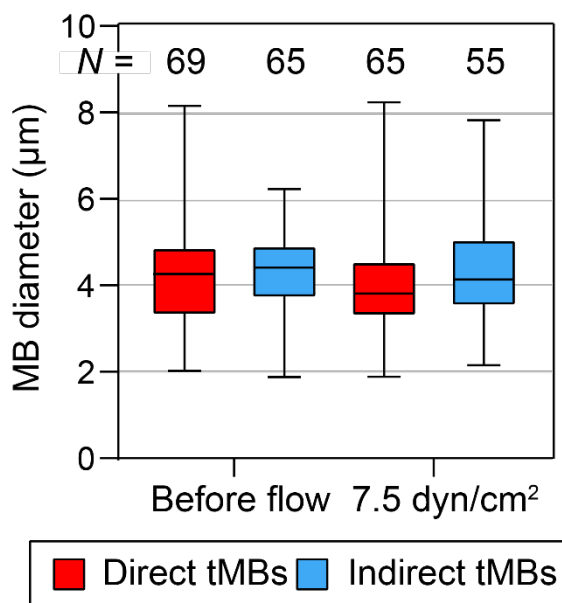


Figure S1. Diameter (μm) of bound direct and indirect targeted microbubbles (tMBs) from dissociation under flow assay with HUVEC monolayer *in vitro*. Diameters were measured in a frame from the recorded confocal time lapse video before flow was started, and at the end of the assay at 7.5 dyn/cm². Boxplots are shown with median, IQR, and whiskers from min to max.

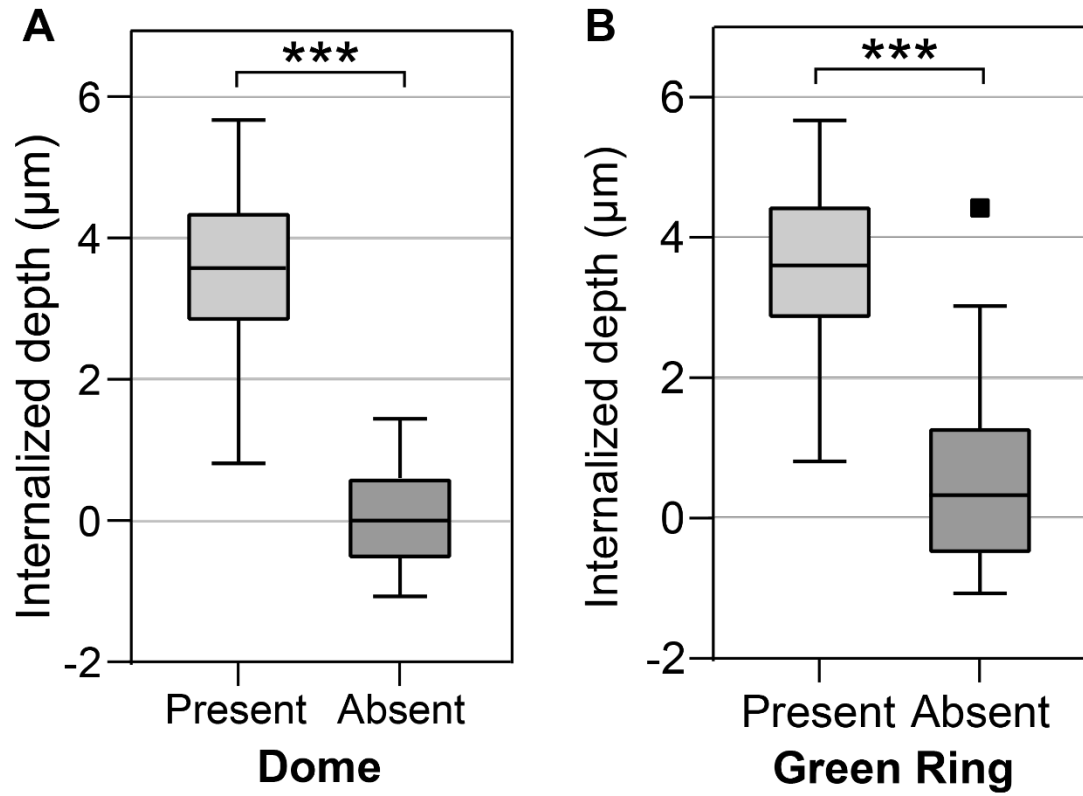


Figure S2. Internalized depth of (A) bound targeted microbubbles with a dome present ($N = 41$) or absent ($N = 20$), and (B) bound targeted microbubbles with a green ring present ($N = 37$) or absent ($N = 24$) in the CellMask Green channel, shown as boxplot with outlier in black (square). Significance is indicated with *** $p < 0.001$.

List of used abbreviations

BSA: bovine serum albumin; CAM: chorioallantoic membrane; DiD: 1,1'-dioctadecyl-3,3,3',3'-tetramethylindodicarbocyanine perchlorate; Dil: 1,1'-dioctadecyl-3,3,3',3'-tetramethylindodicarbocyanine perchlorate; DSPC: 1,2-distearoyl-sn-glycero-3-phosphocholine; EGM: Endothelial Cell Growth Medium; FOV: field of view; HUVEC: human umbilical vein endothelial cell; ICAM: intracellular adhesion molecule; IQR: interquartile range; PBS: phosphate buffered saline; VCAM: vascular cell adhesion molecule; VEGFR2: vascular endothelial growth factor receptor 2