

Supplementary Information

Intravesicular gelation of mesenchymal stromal cell-derived microvesicles for enhanced therapeutic angiogenesis in lower limb ischemia

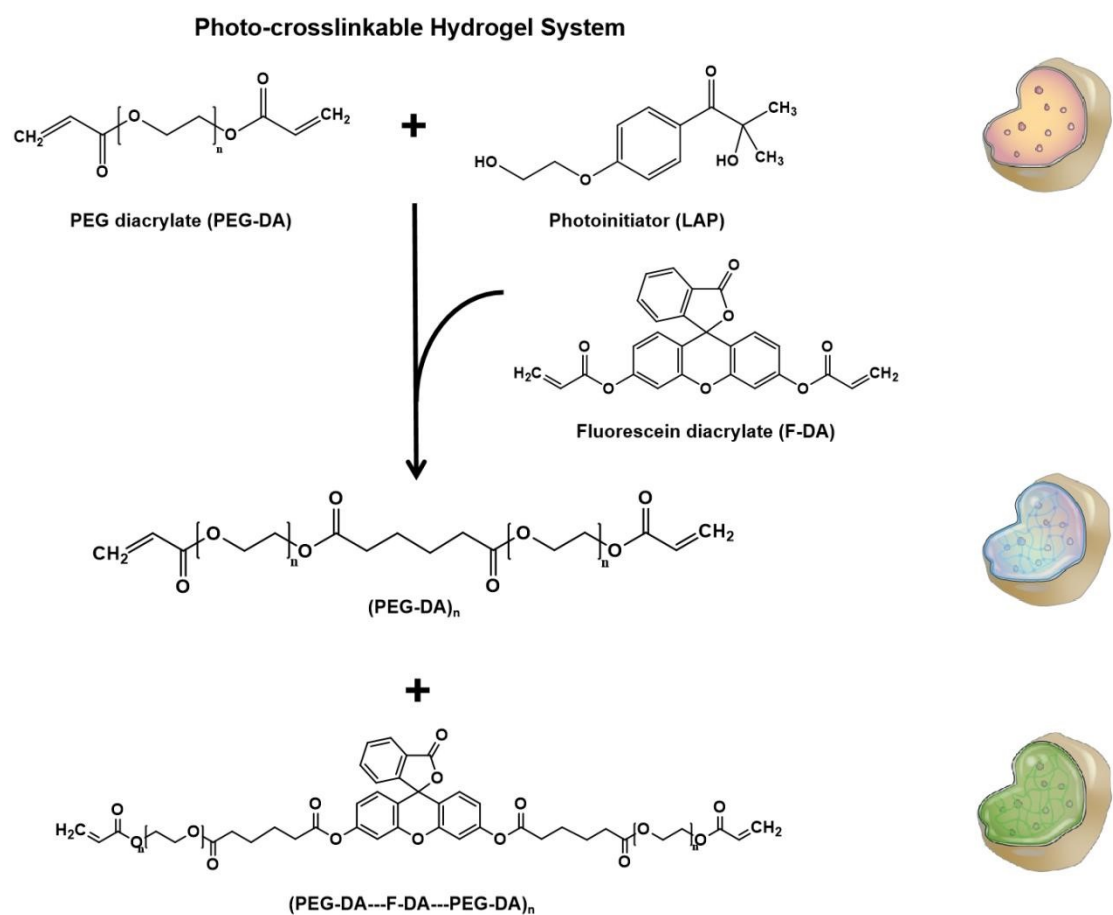
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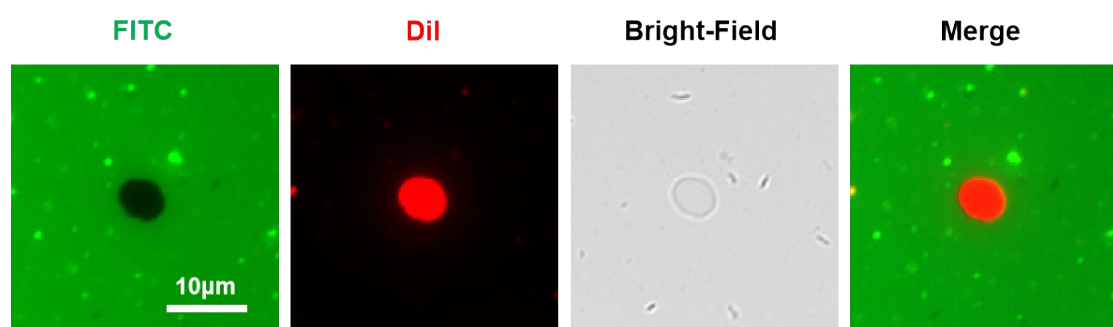
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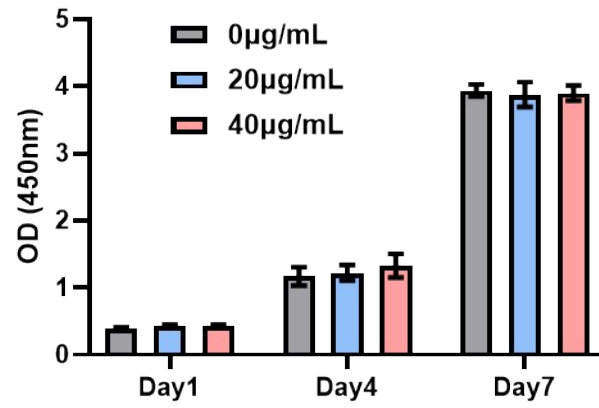


Supplementary Figure 1. Photo-crosslinkable hydrogel system for microvesicle hydrogelation.

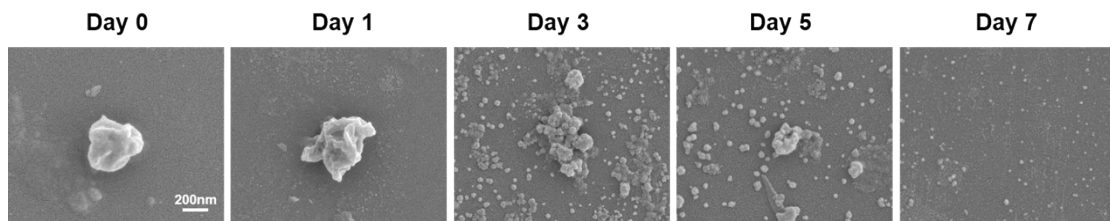


Supplementary Figure 2. Microvesicles suspended in fluorescein solution retain intact plasma membranes

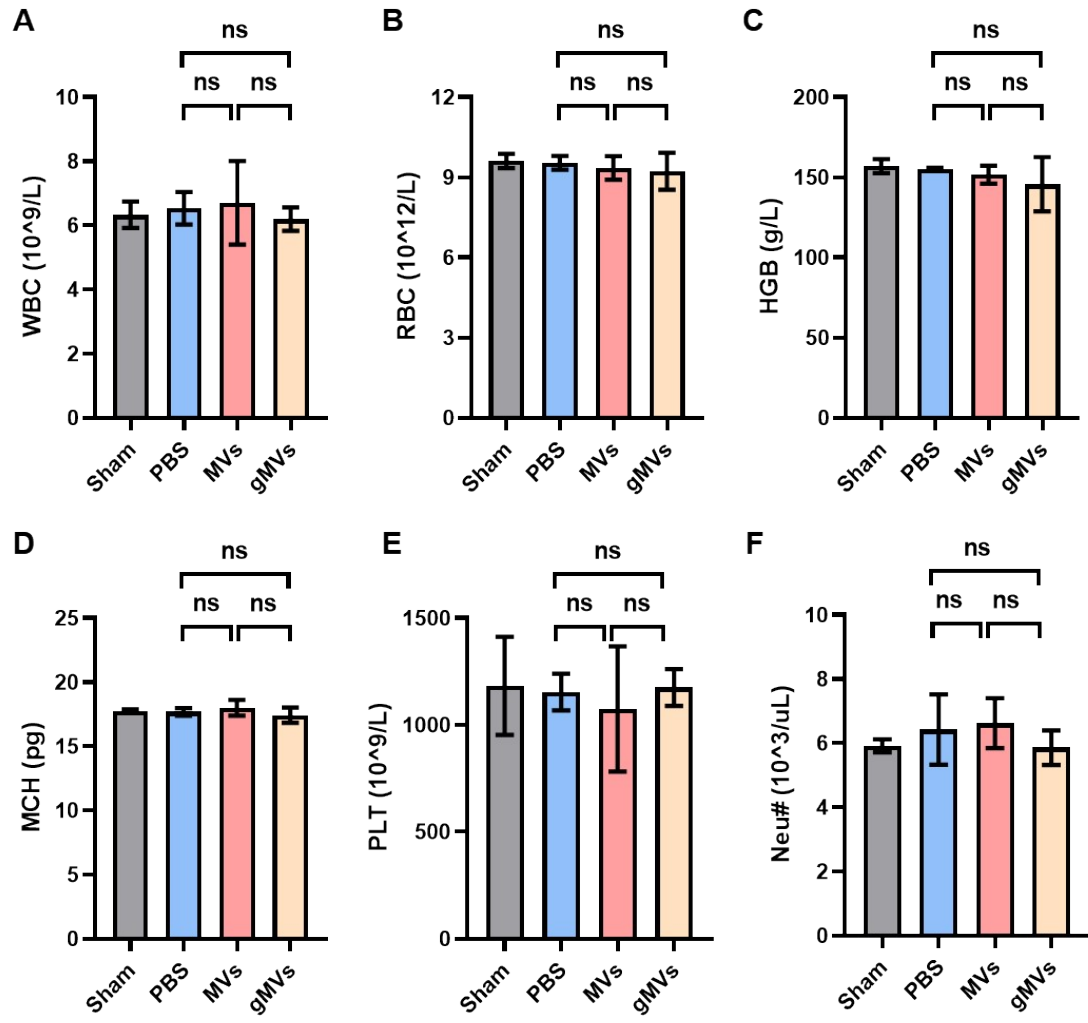
following the freeze-thaw cycle, indicating preserved vesicle integrity.



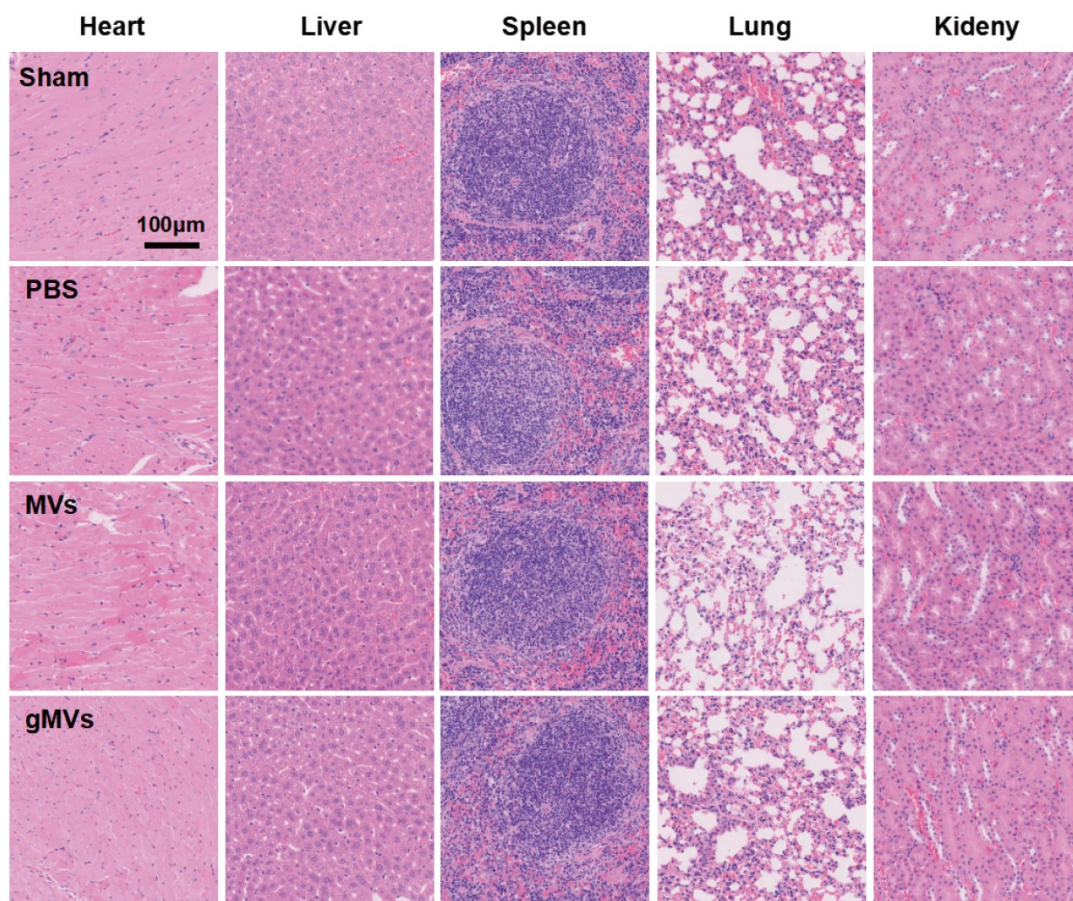
Supplementary Figure 3. Cytotoxicity of gEVs at different concentrations.



Supplementary Figure 4. The degradation of gEVs under simulated physiological conditions.



Supplementary Figure 5. Routine blood tests in mice after 28 days of treatment with MVs and gMV.



Supplementary Figure 6. Representative images of H&E staining of major organs from mice treated with MVs and gMV for 28 days.

Human Genes	Forward Primer 5'→3'	Reverse Primer 5'→3'
GAPDH	GCACCGTCAATTCTGAGAAC	TGGTGAAGACGCCAGTGGA
bFGF	ACTCCAGGCGGTGCCTATGT	GTGAGGGTCTGGGCCATAGAA
VEGF	CTACCTCCACCATGCCAAGT	TGTAAACAGCACGTCATCCTT
HIF-1 α	GCAAGTCCTCAAAGCACAGTTACA G	GTGGTAGTGGTGGCATTAGCAGTA G
Cxcl-2	CTCAAGAACATCCAAAGTGTG	ATTCTTGAGTGTGGCTATGAC

IL-6	TTCCAAAGATGTAGCCGCCC	GTTGGGTCAGGGGTGGTTATT
IL-8	GTTGGGTCAGGGGTGGTTATT	AAACTTCTCCACAACCCTCTG
TNF- α	ATGGCGTGGAGCTGAGAGAT	TCTGGTAGGAGACGGCGATG
ICAM	CCCATGAAACCGAACACA	GGCATATGTCTTCCACTCTG

Supplementary Table 1. Primer sequences used for qRT-PCR.