Journal Name

ARTICLE

Bioglass promotes wound healing through modulating the paracrine effects between macrophages and repairing cells

Received 00th January 20xx,
Accepted 00th January 20xx

DOI: 10.1039/x0xx00000x

www.rsc.org/

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† Electronic Supplementary Information (ESI) available: [details of any supplementary information available should be included here]. See DOI: 10.1039/x0xx00000x

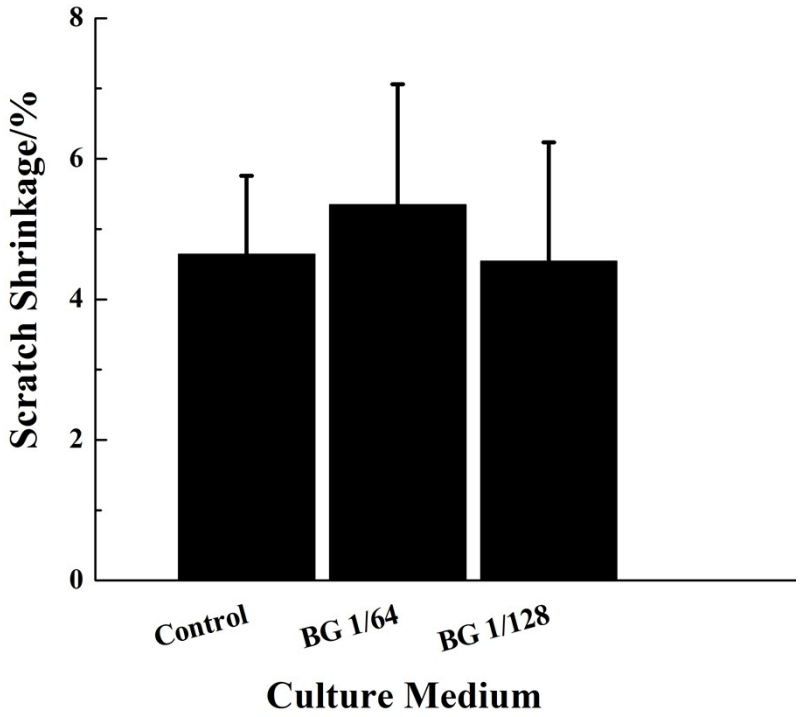

Figure S1. Statistical analysis of scratch shrinkage of RAW cultured with control medium, BG 1/64 and BG 1/128 for 24h. The percentage of scratch shrinkage was calculated as % of scratch shrinkage=100× (original width- final width) /original width. And there was no significant difference in RAW cells migration between the three groups.

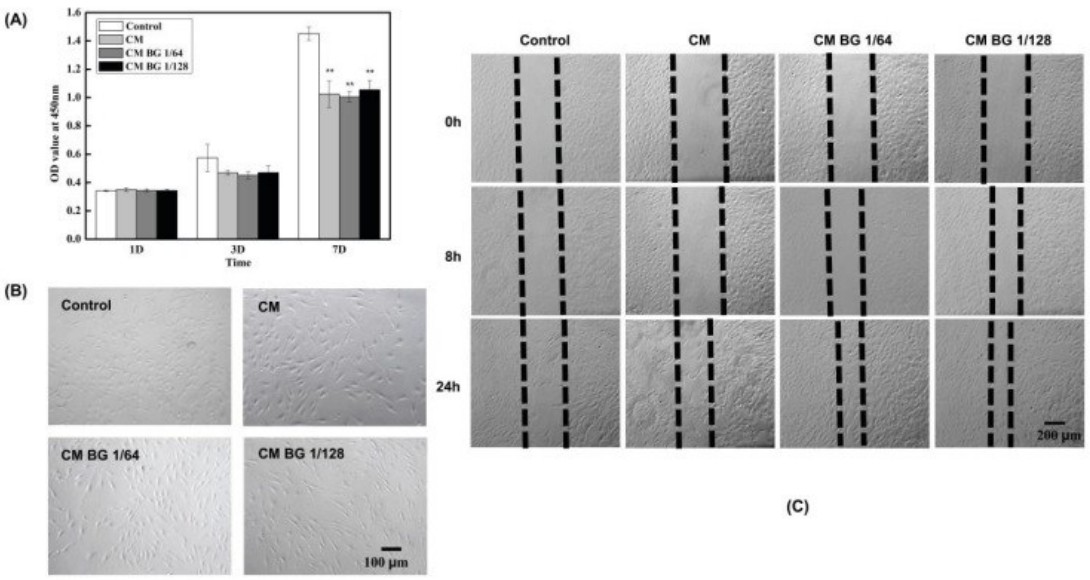

Figure S2. The effects of macrophages conditioned medium on HUVECs proliferation (A), cellular morphology (B) and migration (C). ** presents p<0.01 when compared with the number of HUVECs in control group.

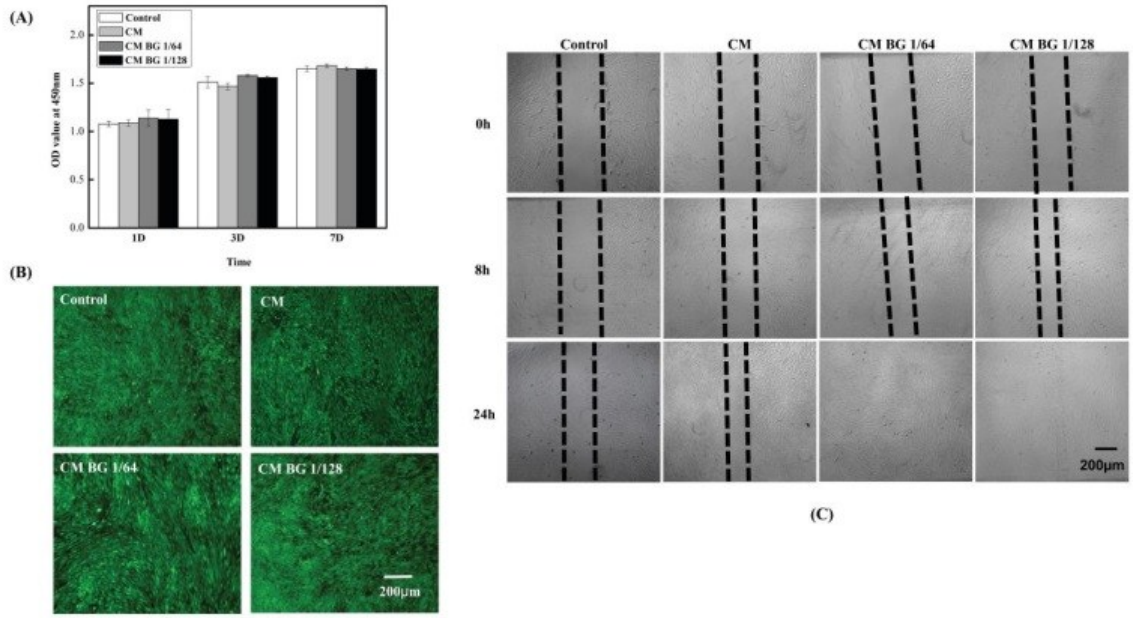

Figure S3. The effects of macrophages conditioned medium on HDFs proliferation (A), the live-dead staining (B) and migration (C)

Table S1 Primer Sequences Used in Q-RT-PCR

gene	gene bank	primer sequences	T_m(°C)
GAPDH	NT_033778.4	F:5′-TGCACCACCAACTGCTTAG-3′	59
		R:5′-GGATGCAGGGATGATGTTC-3′	
GAPDH	NM_002046	F:5′--GATTTGGTCGTATTGGGCG-3′	60
		R:5′-CTGGAAGATGGTGATGG-3′	
iNOS	NC_000077.6	F:5′-GTTCTCAGCCCAACAATACAAGA-3′	62
		R:5′-GTGGACGGGTCGATGTCAC-3′	
ARG	NC_000076.6	F:5′-CTCCAAGCCAAAGTCCTTAGAG-3′	60
		R:5′-AGGAGCTGTCATTAGGGACATC-3′	
TNF-α	NC_000083.6	F:5′-TGAGAAGTTCCCAAATGGCCTC-3′	62
		R:5′- CTACAGGCTTGTCACTCGAATTTTG-3′	
IL-1β	NC_000068.7	F:5′-GAGGATACCACTCCCAACAGACC-3′	58
		R:5′-GATCCACACTCTCCAGCTGCA-3′	
IL-10	NC_005112.4	F:5′-GAGGATACCACTCCCAACAGACC-3′	60
		R:5′-GATCCACACTCTCCAGCTGCA-3′	
$VEGF_{165}$	AB_021221	F:5′-TGCGGATCAAACCTCACCA-3′	58
		R:5′-CAGGGATTTTTCTTGTCTTGCT-3′	
VEGFA	NC_000083.6	F:5′-TGAACTTTCTGCTCTCTTGGGTGC-3′	61
		R:5′-TGCTCTCCTTCTGTCGTGGGTG-3′	
TGF-β	NC_000070.6	F:5′-TGAGAAGTTCCCAAATGGCCTC-3′	60
		R:5′-CTACAGGCTTGTCACTCGAATTTTG-3′	
bFGF	NM_002006.4	F:5′-CAATTCCCATGTGCTGTGAC-3′	61
		R:5′-ACCTTGACCTCTCAGCCTCA-3′	
bFGF	NC_005101.4	F:5′-CAGCCTCTCTAAAGAACTGAC-3′	60
		R:5′-TTGAGCATGTGCAGTCCATC-3′	
bFGFR	NM_021923	F: 5-′GACGGCTCCTACCTCAA -3′	60
		R: 5′-GCTGTAGCCCATGGTGTTG -3′	
KDR	NM_002253	F:5′-GTGATCGGAAATGACACTGGAG-3′	60
		R:5′-CATGTTGGTCACTAACAGAAGCA-3′	
eNOS	NM_001160111.1	F:5′-TGTCCAACATGCTGCTGGAAATTG-3′	55
		R:5′-AGGAGGTCTTCTTCCTGGTGATGCC-3′	
fibronectin	NC_000002.12	F:5′-ATGTTCGTGCAGCTGTTTACCA-3′	58
		R:5′-TCTGTGACACAGTGGCCATAGG-3′	
elastin	NC_000007.14	F:5′-GAGCTTTTGCTGGAATCCCA-3′	58
		R:5′-CAGTTTCCCTGTGGTGTAG-3′	
collagen I	NC_000017.11	F:5′-GCAATGACGAGACTGGCAACC-3′	62
		R:5′-TCAGCACCACCGATGTCCAAA-3′	