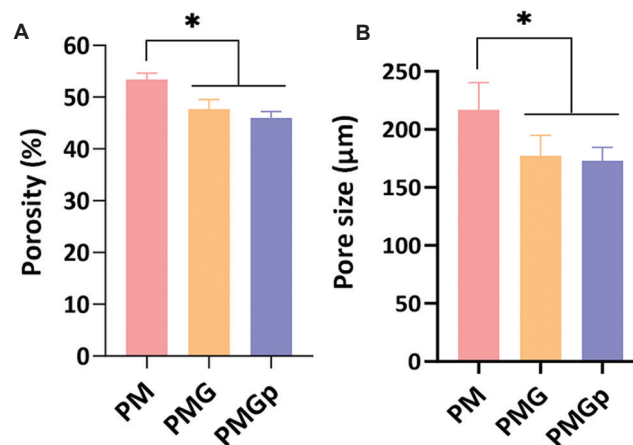
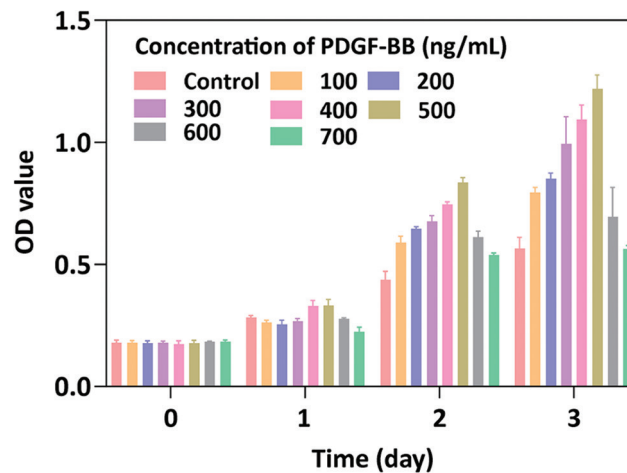


# PDGF-BB-functionalized 3D-printed PLGA/MgP scaffold promotes diabetic bone defect regeneration through angiogenesis and immune modulation

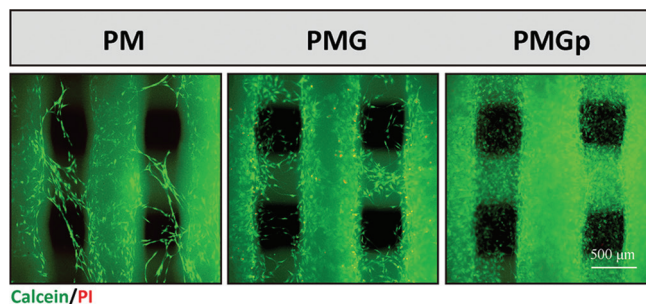
## Supplementary file



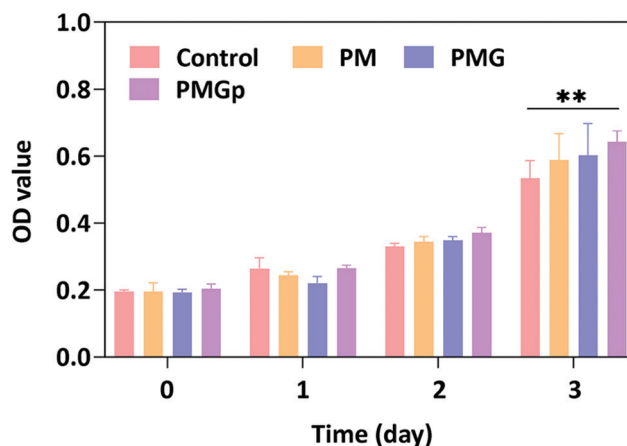
**Figure S1.** The porosity and pore size of the three-dimensional-printed scaffolds. \* $p < 0.05$  indicates statistical significance. Abbreviations: PM: PLGA/MgP; PMG: PLGA/MgP/GelMA; PMGp: PLGA/MgP/GelMA/PDGF-BB.



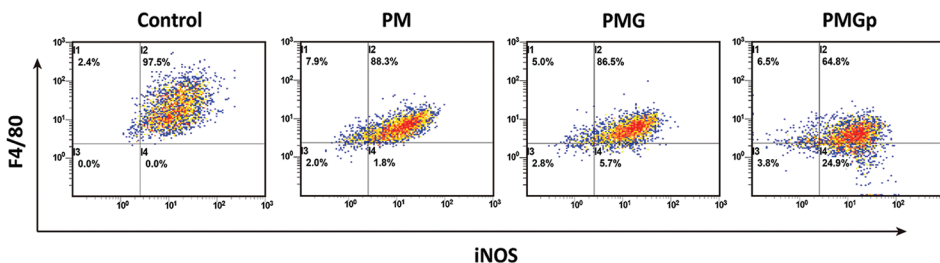
**Figure S2.** Cell proliferation treated by different doses of PDGF-BB cytokines at 0, 1, 2, and 3 days by CCK-8 assay. Abbreviations: OD: Optical density; PDGF-BB: Platelet-derived growth factor-BB.



**Figure S3.** Live/dead staining of cells attached to the three-dimensional-printed scaffolds using Calcein AM and PI (scale bar = 500 μm; magnification = 40×)  
 Abbreviations: PI: Propidium iodide; PM: PLGA/MgP; PMG: PLGA/MgP/GelMA; PMGp: PLGA/MgP/GelMA/PDGF-BB.

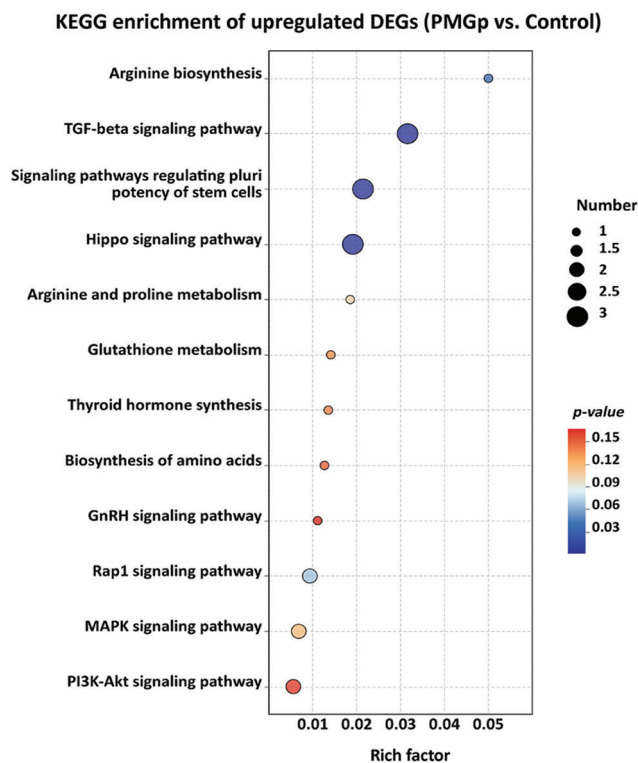


**Figure S4.** Cell proliferation on different 3D-printed scaffolds at 0, 1, 2, and 3 days by CCK-8 assay. \*\* $p < 0.01$  indicates statistical significance  
 Abbreviations: OD: Optical density; PM: PLGA/MgP; PMG: PLGA/MgP/GelMA; PMGp: PLGA/MgP/GelMA/PDGF-BB.

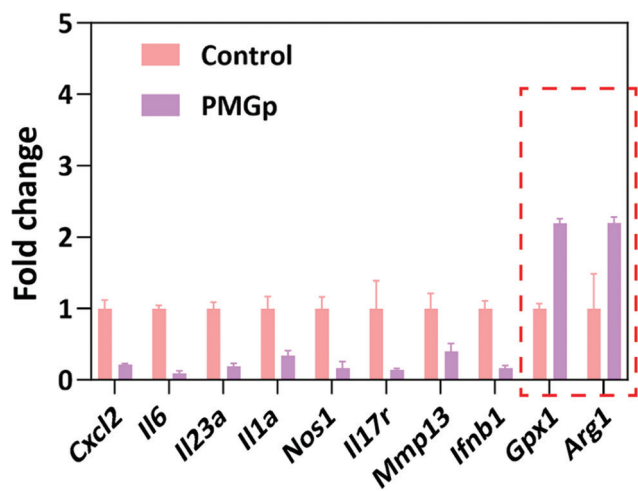


**Figure S5.** Flow cytometric analysis of the proportion of iNOS-positive cells  
 Abbreviations: iNOS: Inducible nitric oxide synthase; PM: PLGA/MgP; PMG: PLGA/MgP/GelMA; PMGp: PLGA/MgP/GelMA/PDGF-BB.

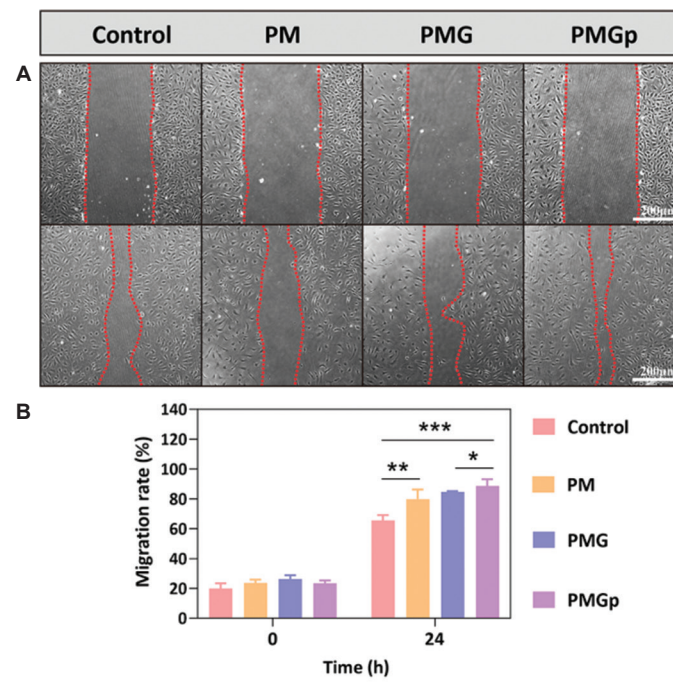




**Figure S8.** KEGG enrichment of upregulated DEGs  
 Abbreviations: DEG: Differentially expressed genes; KEGG: Kyoto Encyclopedia of Genes and Genomes; PMGp: PLGA/MgP/GelMA/PDGF-BB.



**Figure S9.** Relative fold changes of inflammation-associated genes



**Figure S10.** Migration assay of human umbilical vein endothelial cells, including representative images (scale bar = 200  $\mu\text{m}$ ; magnification = 100 $\times$ ) and corresponding quantitative analysis of migration rates. \* $p < 0.05$ , \*\* $p < 0.01$ , and \*\*\* $p < 0.001$  indicate statistical significance. Abbreviations: PM: PLGA/MgP; PMG: PLGA/MgP/GelMA; PMGp: PLGA/MgP/GelMA/PDGF-BB.