



**ONS BIO**

<https://onsbio.com/bioprinting>



# INVIVO GEL

For Your RESEARCH



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GelMA based versatile bioink platform

## INVIVO Gel Lines

INVIVO GEL

INVIVO GEL Essential

INVIVO GEL VEGF

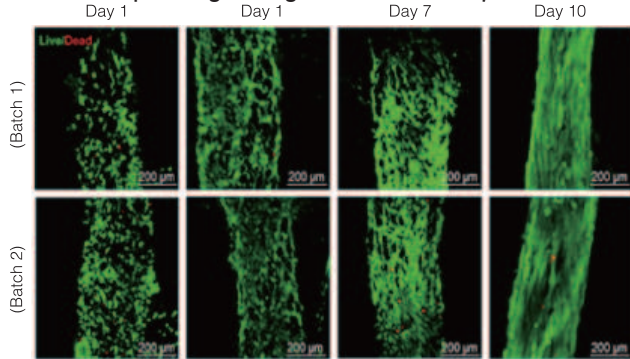
INVIVO GEL BMP-2

INVIVO GEL TGF-β

## INVIVO GEL

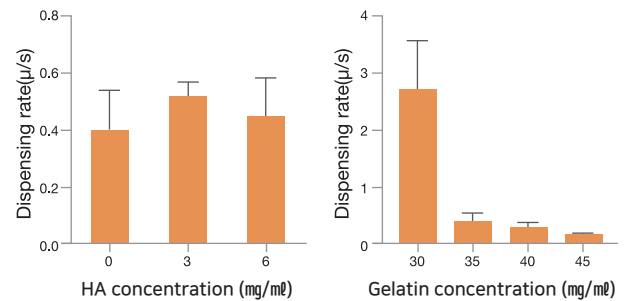
### Cell proliferation assay (Live & Dead assay)

#### Bioprinting of Organized C2C12 Myoblasts



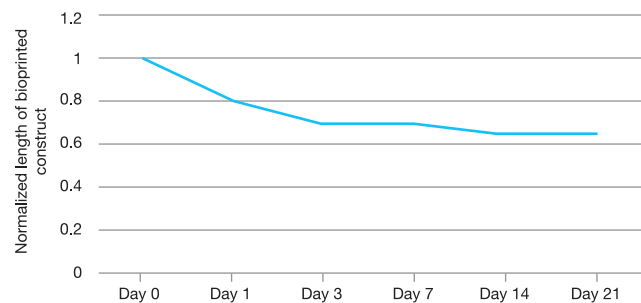
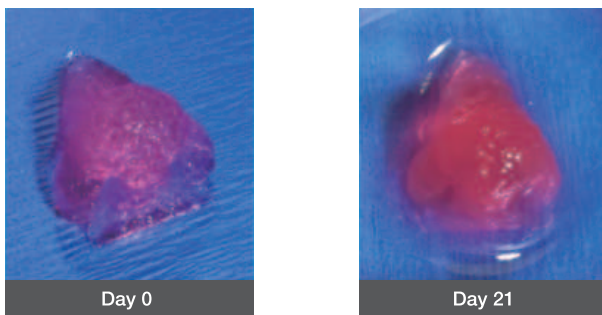
Gelatin based bioink showed excellent cell viability, promoting long term culture

- Cell line : C2C12 ( $1 \times 10^6$  cells/mL)
- Nozzle size : 300  $\mu$ m



Compared to HA, dispensing rate is irrelevant to concentration, gelatin based bioink dispensing rate is controllable, inversely proportional to concentration

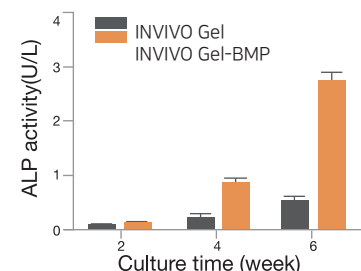
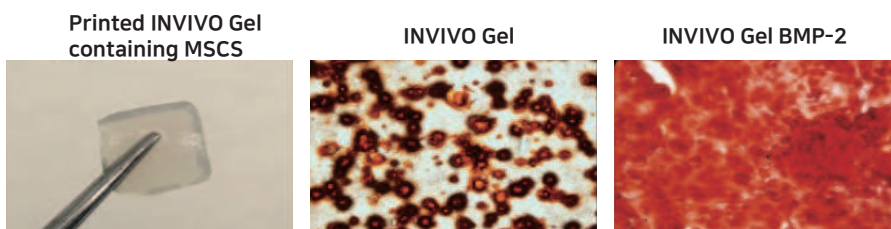
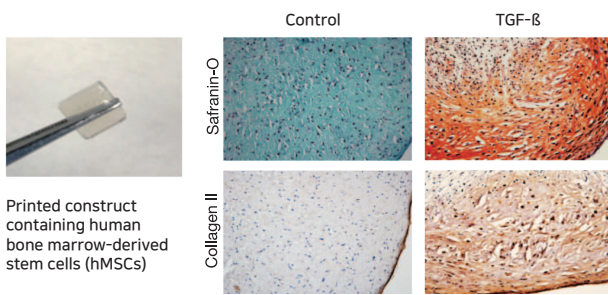
### Structural stability



Structural stability maintained well after 21 days

## INVIVO GEL-peptides

INVIVO GEL functionalized with TGF-β shows significantly higher collagen II secretion compared to control



INVIVO GEL functionalized with BMP-2 strongly promotes osteogenic differentiation