

RESEARCH ARTICLE

Evaluation of a synthetic peptide-based bioink (Peptilink Alpha 1) for *in vitro* 3D bioprinting of cartilage tissue models

Supplementary File

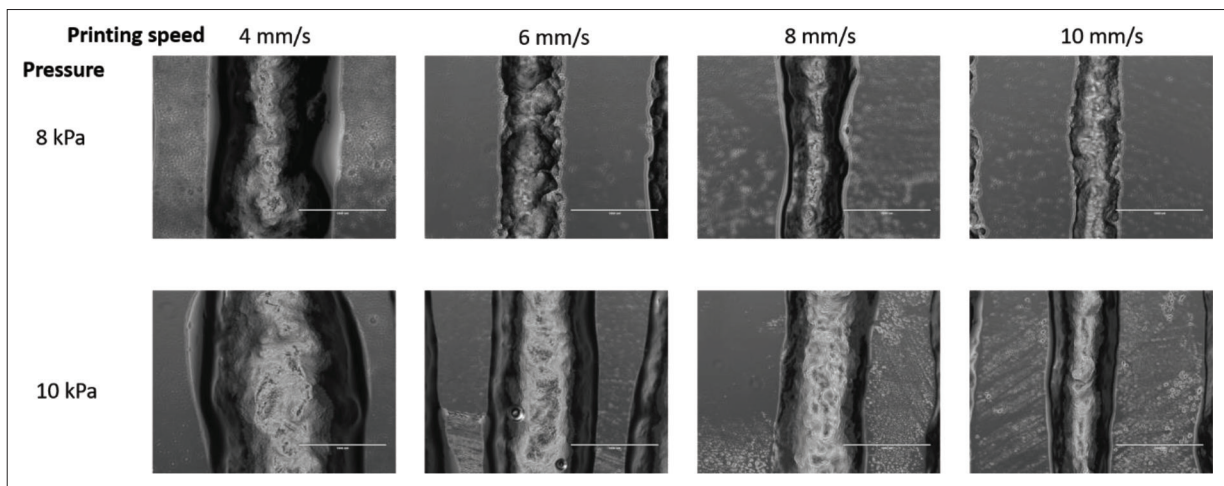


Figure S1. Images of filaments taken with EVOS microscope of Alpha 1 mixed with cell culture media in a 1:10 ratio. All structures were printed with a 25G conical nozzle with two different pressures (8 or 10 kPa) and 4 different printing speeds (4, 6, 8, or 10 mm/s). Scale bar: 1000 μ m.

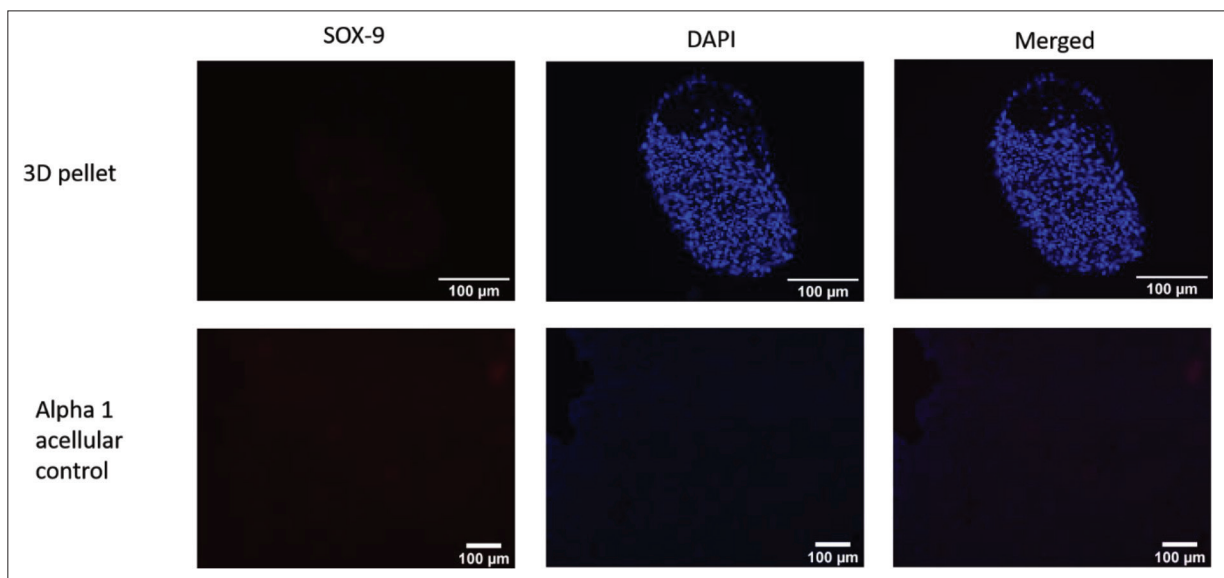


Figure S2. SOX-9 staining in negative control. Top row shows the negative control staining for the 3D cell pellet on day 7. Only secondary antibody was added. Bottom row shows the normal staining performed on Alpha 1 acellular culture after 21 days in culture media.

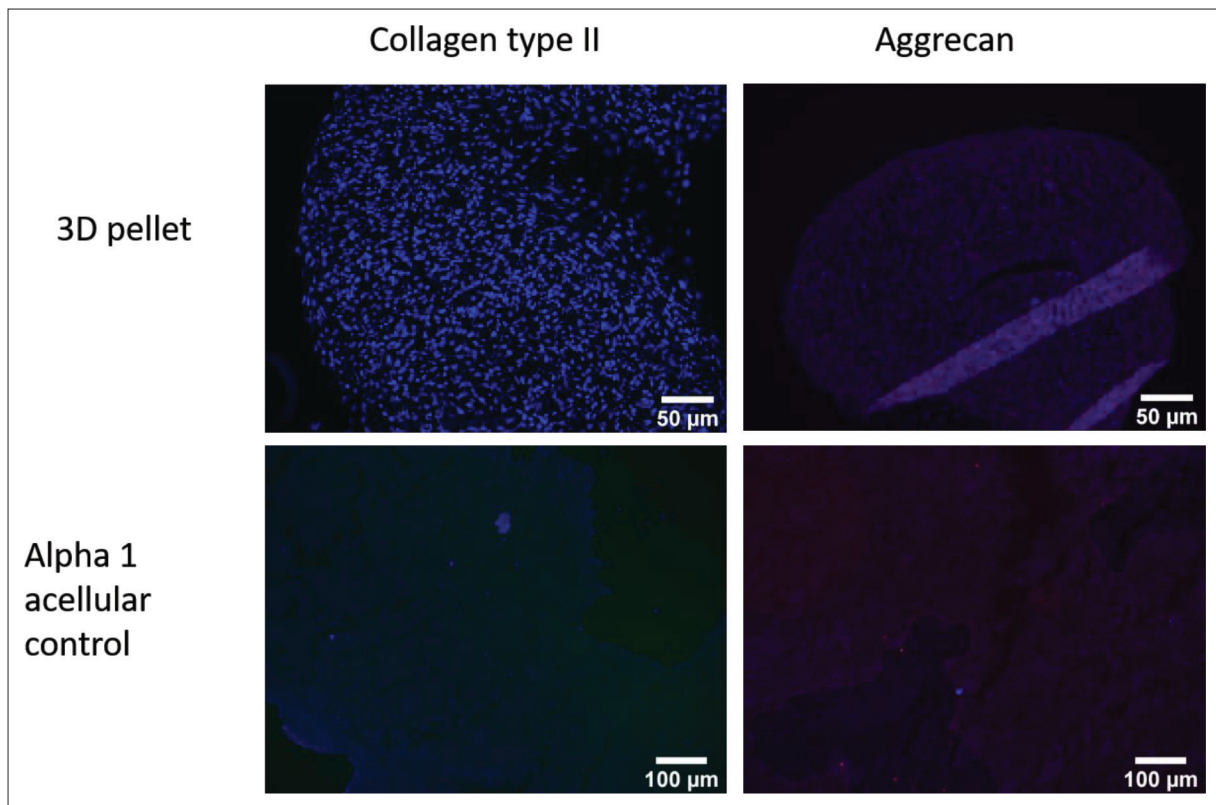


Figure S3. Top row shows the negative control staining of 3D pellet for collagen type II and aggrecan. Only the secondary antibodies were added to assess autofluorescence. Bottom row shows the normal staining of collagen type II and aggrecan on Alpha 1 acellular culture system after 21 days in cell culture media. Slight autofluorescence was observed.