Ex vivo evaluation of acellular and cellular collagen-glycosaminoglycan flowable matrices

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Conflict of Interest
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**Key Words:** Integra Flowable Wound Matrix; ex vivo wound healing model; dermal fibroblasts; mesenchymal stem cells; re-epithelialisation; skin substitutes

**Abbreviations:** IFWM (Integra Flowable wound matrix); CGFM (collagen-glycosaminoglycan flowable matrices); PHDF (primary human dermal fibroblasts); BM-MSCs (bone marrow derived mesenchymal stem cells).
Supplementary Figure 1  Staining for osteogenic, adipogenic and chondrogenic differentiation of BM-MSCs (Applied Biological Materials Inc., Cat no T4019). Cells stained with Alizarin red (osteogenic), Oil Red O (adipogenic) and alcian blue (chondrocytic). To induce differentiation cells were cultured with the relevant StemPro differentiation media (Invitrogen, UK).
**Supplementary Table 1** List of primary and secondary antibodies

<table>
<thead>
<tr>
<th>Antibody target</th>
<th>Description</th>
<th>Company</th>
<th>Cat. No.</th>
<th>Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alpha-SMA</td>
<td>Rabbit polyclonal</td>
<td>Abcam (UK)</td>
<td>Ab5694</td>
<td>1:250</td>
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<tr>
<td>Cytokeratin 10</td>
<td>Mouse monoclonal</td>
<td>Abcam (UK)</td>
<td>Ab9026</td>
<td>1:200</td>
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<tr>
<td>Cytokeratin 14</td>
<td>Mouse monoclonal</td>
<td>Abcam (UK)</td>
<td>Ab7800</td>
<td>1:200</td>
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<tr>
<td>PCNA</td>
<td>Mouse monoclonal</td>
<td>Abcam (UK)</td>
<td>Ab29</td>
<td>1:250</td>
</tr>
<tr>
<td>Anti-Rabbit Alexa488</td>
<td>Donkey polyclonal</td>
<td>Abcam (UK)</td>
<td>Ab150073</td>
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<tr>
<td>Anti-Mouse Alexa488</td>
<td>Donkey polyclonal</td>
<td>Abcam (UK)</td>
<td>Ab150105</td>
<td>1:500</td>
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