

Hagen et al., Supplementary file 1:

Adapted Grogan score for semiquantitative analysis of chondrogenic differentiation

<b>Score categories</b>	<b>Score</b>
<b>A) Uniformity and lightblue*<sup>1</sup>/ blueish*<sup>2</sup> of Alcian blue/ Masson´s Trichrome stain</b> No stain Weak staining of poorly formed matrix Moderately even staining Even strong stain	0 1 2 3
<b>B) Distance between cells/ amount of matrix accumulated</b> High cell densities with no matrix in between (no spacing between cells) High cell densities with little matrix in between (cells < 1 cell-size apart) Moderate cell density with matrix (cells approx. 1 cell-size apart) Low cell density with moderate distance between cells (> 1 cell) and an extensive matrix	0 1 2 3
<b>C) Cell morphologies represented</b> Condensed/ necrotic/ pycnotic bodies Spindle/ fibrous Mixed spindle/ fibrous with rounded chondrogenic morphology Majority rounded/ chondrogenic	0 1 2 3
<b>D) % of differentiated areas of the pellet in field of view (10x magnification)</b> 0 - 5% 5 - 30% 30 - 60% 60 - 100%	0 1 2 3
* <sup>1</sup> = Alcian blue staining * <sup>2</sup> = Masson´s Trichrome staining	