

The immunophenotype and differentiation of Adipose-derived stem cells (ADSCs)

1. The immunophenotype of ADSCs

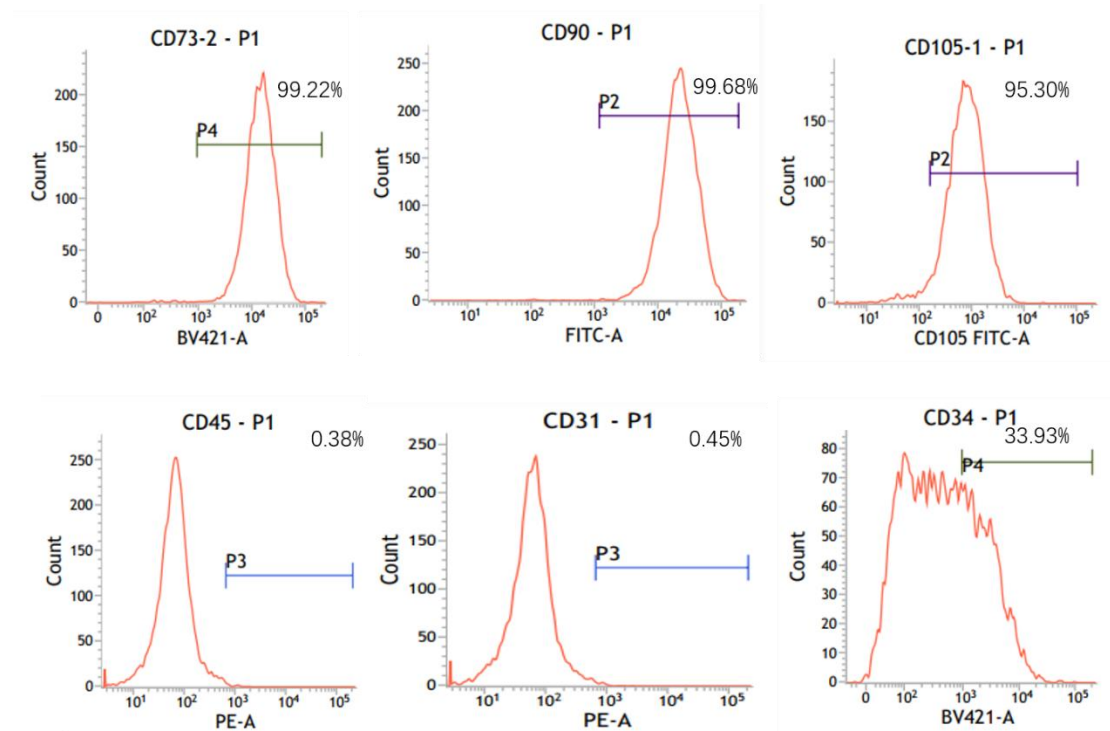


Figure 1 The immunophenotype of ADSCs by flow cytometry

Cell surface marker expression was examined using fluorochrome-conjugated antihuman CD105-FITC (fluorescein isothiocyanate), CD73-BV421, CD90-FITC, CD31-PE (phycoerythrin), CD34-BV421, and CD45-PE antibodies or the respective isotype controls (BD Biosciences) in accordance with the manufacturer's instructions. The labeled cells were analyzed by multiparameter flow cytometry using a FACSCanto cytometer and Diva software (BD Biosciences).

2. ADSCs Differentiation Assay

2.1 Adipogenic differentiation

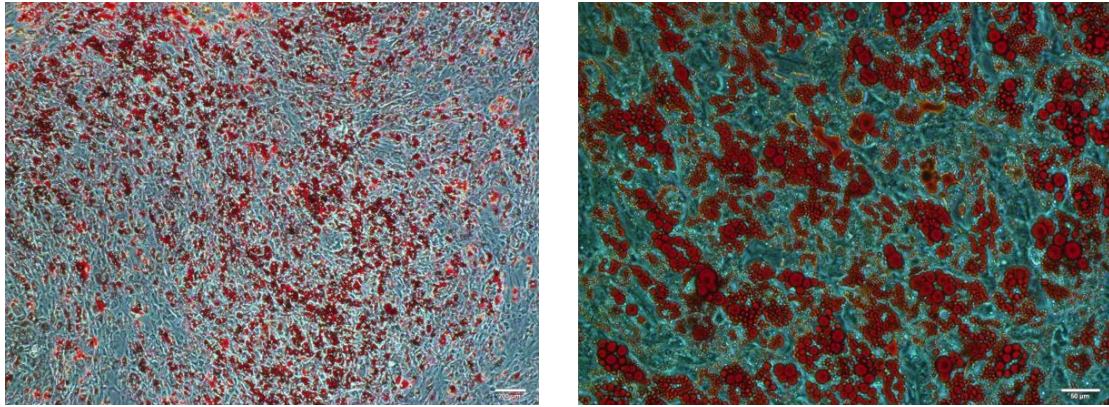


Figure 2 Adipogenic differentiation of ADSCs

Oil red O staining confirmed adipogenic differentiation of ADSCs.

2.2 Osteogenic differentiation

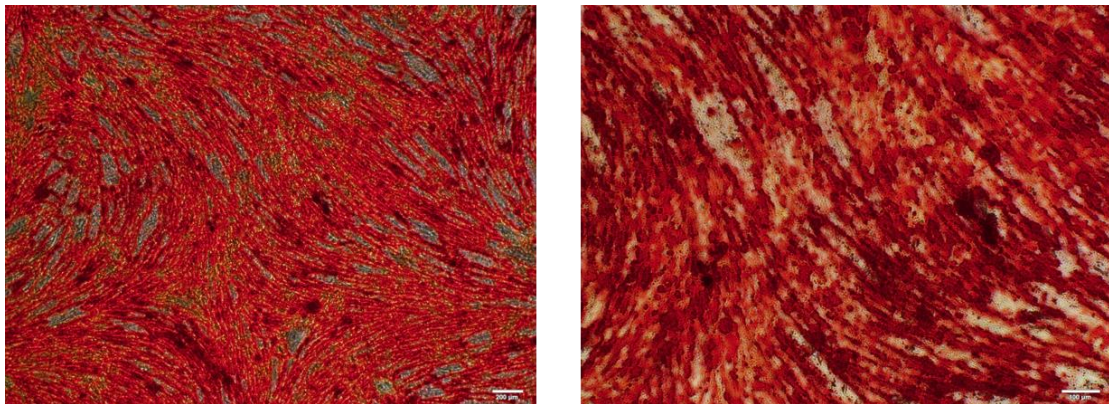


Figure 3 Osteogenic differentiation of ADSCs

Alizarin red S staining confirmed osteogenic differentiation of ADSCs.

2.3 Chondrogenic differentiation

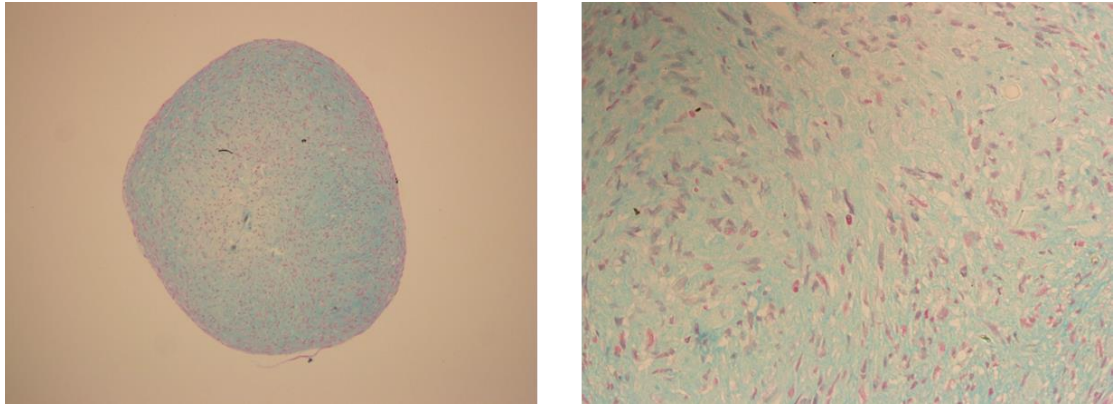


Figure 4 Chondrogenic differentiation of ADSCs

Alcian blue staining confirmed chondrogenic differentiation of ADSCs