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Oil Red O Staining

Oil Red O Staining Drosophila Larval and Prepupal Tissues

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Adipogenic differentiation was induced by using the StemPro adipogenesis differentiation kit (Invitrogen, Carlsbad, CA, USA). WJCMSCs were grown in the adipose-inducing medium for 3 weeks. For Oil Red O staining, after induction, cells were fixed with 10% formalin for at least 1 h at room temperature. Next, cells were stained with the 60% Oil Red O in isopropanol as working solution for 10 min. The proportion of Oil Red O-positive cells was determined by counting stained cells under a light microscope. The final OD value in each group was normalized with the total protein concentrations prepared from a duplicate plate.

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Wang Y, Liu Y, Fan Z, Liu D, Wang F, Zhou Y (2017) IGFBP2 enhances adipogenic differentiation potentials of mesenchymal stem cells from Wharton's jelly of the umbilical cord *via* JNK and Akt signaling pathways. PLoS ONE 12(8): e0184182. doi: 10.1371/journal.pone.0184182

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1 Cells were grown in the adipose-inducing medium for 2-3 weeks.

2 After induction, cells were fixed with 10% formalin for at least 1 h at room temperature.

3 Cells were stained with the 60% Oil Red O in isopropanol as working solution for 10 min.

4 The proportion of Oil Red O-positive cells was determined by counting stained cells under a light microscope.

5 The final OD value in each group was normalized with the total protein concentrations prepared from a duplicate plate.

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