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In Vitro Differentiation of Human Umbilical Cord Wharton's Jelly Mesenchymal  
Stromal Cells to Insulin Producing Clusters

Seideh Masoomeh Nekoei, Negar Azarpira, Ladan Sadeghi, Sulmaz Kamalifar

### Abstract

**AIM:** To investigate the differentiation of human Wharton's jelly derived MSCs (WJ-MSCs) to Insulin producing clusters (IPC) this study was conducted.

**METHODS:** The umbilical cords samples were collected from full term caesarian section mothers and the WJ-MSCs were cultured from tissue explants in High glucose-Dulbecco's Modified Eagle Medium; H-DMEM supplemented with 10% fetal



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