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Human induced pluripotent stem cell culture

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ABSTRACT

Cell culture for the maintenance of hiPSCs.

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- 1 Coat 6 well plates with Geltrex LDEV-Free Reduced Growth Factor Basement Membrane Matrix (Thermo Fisher Scientific), 1:100 dilution for 1 hour before cell passaging.
- 2 When hiPSCs are 80-90% confluent, they are passaged:

2.1 Old media is aspirated and replaced with 1ml of cell-culture PBS (Gibco, Thermo Fisher Scientific)

2.2 PBS is aspirated and replaced with 0.5 mM EDTA (Thermo Fisher Scientific) made up in PBS.

2.3 hiPSC are incubated in EDTA for 🕒00:05:00 at 🌡️37 °C . 5m

2.4 After 5 minutes, the EDTA is aspirated and cells are dissociated with media (E8 or mTesR 1).

2.5 hiPSCs are then placed in new 6 well plates at the desired dilution.

3 All hiPSCs are fed daily with fresh media. All cells were maintained at 37°C and 5% carbon dioxide.