

Development of *in vitro* hair follicle induction model using human induced pluripotent stem cells

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In the present study, we successfully established a protocol to induce human induced pluripotent stem cells (hiPSCs) into keratinocyte precursor cells, expressing keratin 18 and 14. By co-culturing hiPSC-derived keratinocyte precursor cells with human dermal papilla cells, we were able to, at least partially, recapitulate bidirectional crosstalk between hair matrix cells and the dermal papilla in the hair follicle, which may provide a valuable tool for future investigation.