

Effect of *Urtica Canabina* on the Growth of Human Hair derived Cells

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The number of alopecia increase constantly, and the rate of younger patient are growing. Using herbs to treat hair loss, a lot of research has been ongoing. There are few report the effect of *Urtica Canabina* on hair follicle. Recently, several *in vitro* assay systems have been reported as a means of investigating the mechanism of hair growth control. The objectives of this study were *Urtica Canabina* derived Mongolian effect proliferation and activity of human dermal papilla cell. The leaves of *Urtica Canabina* were extracted with hexane, methanol, and hot water. The extract was then concentrated in a vacuum evaporator. We seed 4×10^4 human hair derived cells each of wells in the 12 well plate. The day after, we added the diluted *Urtica Canabina* solution on cell culture media and cultured h-DPCs or h-ORSCs for 4 days. We performed LDH, MTT, RT-PCR, and topical test with C57BL6 mouse. *Urtica Canabina* extract did not stimulate h-DPCs proliferation but had some positive effect hair cell activity.