“The Effect of Ethyl Acetate Oil Extracts of *Hexastylis arifolia* on PC12 Cell Cultures”

**Abstract**

According to previous studies, the compound safrole may have potential benefits for neurodegenerative disorders. In the current study, *Hexastylis arifolia* root extractions were obtained using ethyl acetate in order to produce an extract containing safrole. The presence of safrole was confirmed by GC/MS data. The effect of the ethyl acetate extraction on PC12 cells was measured by observing the number and length of neurites following NGF-induced differentiation. The ethyl acetate extract-treated PC12 cells exhibit a neuroprotective effect with regard to neurite length. However, the effect is not observed when neurite numbers are quantified.