

Paper 151 – Sciences

GENOTOXICITY OF MENTAWAN (POIKILOSPERMUM SUAVEOLENS) EXTRACTS USING THE ALLIUM CEPA ASSAY

Jedd Fabroa, Precious Mindac, April Ann Karen Quizon, Merbeth Christine L. Pedro, Orlex B. Yllano, Ephraim M. Evangelista, Ferdinand A. Esplana and Neil John V. Vegafria

Adventist University of the Philippines

merbethchristine@yahoo.com

ABSTRACT

The use of plants as herbal medicine has been known worldwide. People believe that herbal medicine could treat their illnesses even without an established study. There was no recorded study on the genotoxicity of Mentawan (*Poikilospermum suaveolens*). Mentawan, a stout and woody climber is considered as an herbal medicine that effectively cure diarrhea, gastritis, and the like. This study investigated the effect of Mentawan leaf extract with the root length, root number, and chromosomal aberration of *Allium cepa* roots using *A. cepa* Assay. There were no toxicity symptoms evident on the *Allium cepa* roots. Analysis of variance showed no significant difference in the root number, root length, and chromosomal aberrations in different concentrations of Mentawan and the control.

Keywords: *Poikilospermum Suaveolens*, Genotoxicity, Chromosomal Aberration, Herbal Medicine, And Mentawan

