May 2-4, 2018 Rome, Italy

## Anti-Alopecia Activity of Hantap (Serculia coccinea Jack.) Leaves Ethanol Extract

## Resmi Mustarichie<sup>1\*</sup>, ImamAdiWicaksono<sup>2</sup> and Dolih Gozali<sup>3</sup>

- <sup>1</sup>Department of Pharmaceutical Analysis and Medicinal Chemistry, University of Padjadjaran, Indonesia
- <sup>2</sup>Department of Pharmacology, University of Padjadjaran, Indonesia
- <sup>3</sup>Department of Pharmaceutics, Faculty of Pharmacy, University of Padjadjaran, Indonesia

**Objective:** This study aims to determine and verify the use of ethanol extract of *Serculia coccinea* leaves ethanol extract as stimulant of hair growth or anti-alopecia.

**Methods**: The *S. coccineal* eaves was collected from Salawu tribe, Tasikmalaya, West Java. The extraction was done by maceration which was based on standard method of Indonesian Herbal Pharmacopeae. The viscous concentrated extract was fractionated by liquid-liquid extraction. Phytochemical screening according to the Farnsworth method. Method of hair growth on Angora type rabbit was modified of Tanaka method.

**Results:** The results of phytochemical screening using Farnsworth method showed the ethanol extract containing secondary metabolite of tannin compound, polyphenol, steroid, triterpenoid, quinone, monoterpenoid and sesquiterpenoid. The results of hair fertilizer testing using Tanaka method showed that ethanol extract and water extract with 20%, 15%, 10% concentration significantly could fertilize hair with test for 18 days. Extracts of ethanol with levels greater than 10% showed better results. Water fraction of 10% appeared to show the best result for rabbit hair growth overcome minoxidil.

Conclusions: This work found that the concentration of 10% ethanol extract of S. coccinea and its water fractions were affective for hair growth on male rabbits. It was suggested, however, for further study to determine the compound which was responsible by using elucidation methods and being tested to volunteers.

Keywords: Hair fertilization, ethanol extract, Sterculiacoccinea, hair grower, Alopecia, phytochemical screening

## **Biography:**

Dr. Resmi Mustarichie is Professor of Pharmaceutical Chemistry. He was graduated as PhD. Graduate supervised by Prof. Allan F.M Barton from Murdoch University, Western Australia. He is currently active as lecturer and researcher at Faculty of Pharmacy, UniversitasPadjadjaran, Indonesia, 45363. His interest in Analysis and determination of bioactive compounds from natural materials, Herbal anti-alopecia, and molecular computing