

4th International Pharma & Clinical Pharmacy Congress

November 07-09, 2016 Las Vegas, Nevada, USA

Insights into the ethnomedicinal applications of *Aerva javanica* with scanning electron microscope (SEM) photos

Suzan M Shahin, Rahaf M Ajaj and Mohammed A Salem
United Arab Emirates University, UAE

Aerva javanica, “known as desert cotton” is an essential oil-bearing plant species. This plant is belonging to the *Amaranthaceae* (cockscumb) family. *A. javanica* is a perennial xerophytic shrub, which is common and widespread in tropical and subtropical dry areas. *A. javanica* has various applications in the traditional herbal medicine of many countries “e.g. Saudi Arabia, Pakistan and United Arab Emirates”. The main purpose of this work is to discuss detailed insights about the ethnomedicinal practices related to this plant, which provide insights into the possible applications in the modern medicine field. Also, the study will provide detailed information about the general characteristic of *A. javanica* essential oil. Including it is yield, physical characteristics, main chemical groups, main chemical constituents and it is biological activities. Supported with plant part indication and essential oil extraction technology. Also, the study will illustrate scanning electron microscope (SEM) photos for *A. javanica* leaf (abaxial and adaxial views) collected from the United Arab Emirates wildlife flora. In conclusion, the work will provide some recommendations related to the possible future applications based on *A. javanica* in the pharmaceutical field.

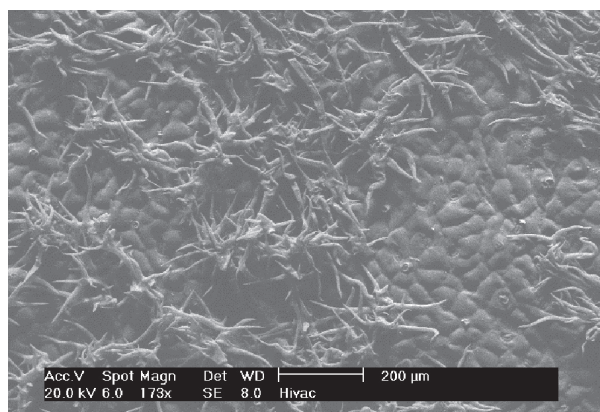


Figure 1: The promising aromatherapy company overview.

Biography

Suzan M Shahin is the Lead Ambassador for all graduate students at the United Arab Emirates University (UAEU). She is a Researcher and PhD candidate in the Aridland Agriculture Department, College of Food and Agriculture, UAEU. She worked as an Instructor in the arid land agriculture department, UAEU, for the period from 2013 to 2015. Her research interests are the UAE indigenous plants, medicinal plants, essential oil extraction and analysis, aromatherapy, anti-oxidant biological activities, natural resources, natural drugs, environmental sciences and sustainable environmental approaches. She is the Co-founder of the promising company Aroma Niche in collaboration with professional members from arid land agriculture, chemical engineering and business administration.

suzan.shahin@uaeu.ac.ae