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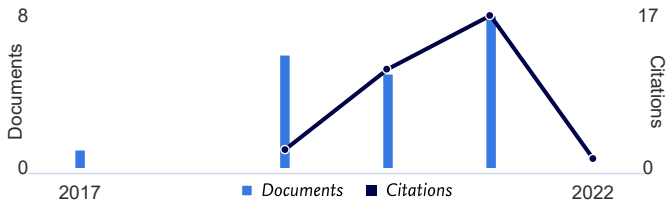

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Pulmonary tuberculosis (pulmonary TB) is an infectious disease caused by Mycobacterium Tuberculosis that attacks the lungs organs. Until recently pulmonary TB is still a large category of disease that cause the death in Indonesia, so that should get a special treatment in order to reduce the number of morbidity and mortality resulting. Data of health department showed Semarang as the most contributor to the city of pulmonary TB incidence rate in Central Java. Another contributing factor is environmental factors include physical environment, individual characteristics, and social environment. Trace it, it is necessary to do an analysis of the factors that affect the status of whether infected household members (ART) or not against pulmonary TB in Semarang is a descriptive Supports Vector Machine (SVM) Method. Descriptive analysis aims to examine the characteristics of ART based on environmental factors, whereas SVM is to determine classification accuracy of pulmonary TB. The result accuracy of classification is 98%. © 2017 American Scientific Publishers All rights reserved.

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Traditional knowledge of medicinal plant use in many regions of Papua New Guinea (PNG) and the East New Britain Province is poorly described. The main aim of this research was to identify the plants used as medicinal plant in the Vunatui clan of the Tolai society in East New Britain, PNG and determine the type of disease or conditions being treated by these plants and how the plants are being prepared. Data collection was undertaken through participatory exploration method. Result shown that there were about 52 species of medicinal plants collected in this research. Many different medicinal plants were applied to cure various diseases such as headache, sores, cuts, wounds, cough, fever, diarrhea, stomachache, injuries, skin infections and many others. Different methods of preparation were used including crushing, heating, squeezing but the most common method used was infusion.

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Keywords: Ethnobotany; Medicinal Plants; Papua New Guinea; Vunatui Clan

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The bacterial symbionts of softcoral *Sarcophyton* sp. contains a carotenoid pigment that has a protection activity against UV rays. The aim of the study was to know the protection activity against UV rays of the bacterial symbiont carotenoid of *Sarcophyton* sp. Four bacterial symbionts used were those capable of producing carotenoid pigments, namely: CBSCP 1-1, 2-2 CBSCP, CPSCP 2-3, and CPSCP 2-4. The measurement analysis of sunscreen *in vitro* was carried out by using UV-Vis spectrophotometer. The parameters observed were the SPF value, erythema transmission percent (%TE) and pigmentation (%TP) at concentrations of 800, 900, 1000 ppm. The results showed that the bacterial symbiont CPSCP 2-3 has the biggest SPF value with average protection potential at a concentration of 900 and 1000 ppm, respectively. The pigmentation transmission percent value of CBSCP 2-3 had sunscreen protection capabilities at concentrations of 800, 900, and 1000 ppm. Anova 2 ways test result demonstrated significant difference between the SPF value, percent erythema transmission, and pigmentation from CBSCP 1-1, CBSCP 2-2, CBSCP 2-3, CBSCP 2-4. This finding highlights natural ingredients of carotenoids from bacterial symbionts of soft coral *Sarcophyton* sp. as potential sunscreen protectors.

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