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Natural products from Rhodomyrtus tomentosa extract and rhodomyrtone

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The talk will present a successful story on the transformation of scientific discoveries into patented inventions. Extraction method of Rhodomyrtus tomentosa leaf was developed. Semi-purified fractions as well as a principle compound, rhodomyrtone, was isolated. 45 scientific papers are available in ISI. Top quality natural products were then designed based on strong scientific evidence (*in vitro* and *in vivo*) on their biological activities. Advanced pharmaceutical technology was used to develop products. Clinical trials were performed for cosmetics and pharmaceutical products. Field trials in agricultural field and aquaculture system have been shown to prevent bovine mastitis and streptococcosis in fish of economic importance such as tilapia and rainbow trout, respectively. For applications as food additive. It was demonstrated that it could effectively prevent food from spoilage. In addition, sensory test in food models demonstrated that all samples rinsed with the extract attained acceptance limit for overall acceptability. Two patents and 7 petty patents are being pending in Thailand, together with six prototypes available.

Biography

Supayang P Voravuthikunchai has received both BSc (Hons) and PhD in Microbiology from the University of New South Wales, Australia. She is currently a Professor at Department of Microbiology, Faculty of Science and the Director of Natural Product Research Center of Excellence, Prince of Songkla University, Thailand. She has published 150 articles and has 17 patents. She has won National Invention Awards by National Research Council of Thailand in 2003 and 2014, won a silver medal from Inventions Geneva (in 2015) and a gold medal from Brussels Innova. She received Research Excellence Awards at Thailand National Research Universities Summit in 2013 and 2014. She was named by NRCT as National Outstanding Researcher (Agriculture and Biology) in 2014. In 2015, she was honoured as Thailand Research Fund Senior Research Scholar (Medical Microbiology). In 2016, she was awarded as National Outstanding University Professor by the Council of University Faculty Senate of Thailand.

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