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Identification of active phyto-constituents from herbs and Structure Based Drug Design

Dr. D. Velmurugan

Honorary Emeritus Professor

University of Madras, Guindy Campus, Chennai -600 025, India.

E-mail: shirai2011@gmail.com

From ancient times people had been using herbs to cure their ailments. In Indian Medicine, herbs are being used actively for hundreds of years in Siddha and Ayurvedha . Although the chances of side effects in using herbs are less compared to allopathy medicine, scientific validity is not thoroughly available in Indian system of medicine. To bridge this gap, my team had been working on herbs for the past ten years after having tie up with two herbalists from North East Region and one from South India. More than hundred medicinally important herbs have been studied scientifically after isolating some of the phytoconstituents. GCMS, LCMSMS and Structure Based Drug Design approaches have been used to understand the principles behind the cure of the patients for the respective diseases using these herbs. Various types of Cancer, diabetes, inflammation, virus infections and snake bites are considered on the above studies. Presentation will cover all these aspects.

Department of Bioinformatics, Alagappa University,

Karaikudi –630004, Tamil Nadu

E-mail: dbiicsbcadd@gmail.com

Web Address: <http://conf.bioinfoau.org/icsbcadd'2019>