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The application of proteins from less likely studied samples from South East Asia

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Protein play multitude of roles in the body of an organism. Enormous effort been done over the years to study proteins either by the traditional chromatography techniques of isolating one at a time or by the later developed means of proteomics advances capable to study directly on a protein mixture. This paper provides some examples of studies done on either of the mentioned approaches on protein mixtures obtained from samples specifically found predominantly in South East Asia. Exposures on mapping the two dimensional electrophoresis gel of a number of venom from snakes found commonly in Malaysia and in its neighboring countries will be highlighted. The challenges of mapping protein of abundance, elimination of vertical streaks, lack of protein library, the use of cup loading spiking and 2DE guided purification techniques are some of the important findings. Additionally, the potential development of a protein marker capable to be used to authenticate herbal products incorporated with Tongkat Ali (the notoriously famous aphrodisiac plant) will be also introduced. To conclude the shift of attention from the traditional focus of investigating herbal constituents to that of bioactive protein in natural products rapidly emerging in South East Asia.

Biography

Jaya Vejayan has completed his PhD from University Malaya, Malaysia. During his Masters, he was involved in isolating bioactive compounds from the medicinal plant, *Ipomea pes-caprae*, known to be an antitoxin to jellyfish toxins. During his PhD, he used proteomics to study proteins in various snake venoms in Malaysia. Accordingly, he merged both of the knowledge together to derive the 2DE guided purification technique. He has number of publications mainly relevant to the field of toxinology and remained focused in furthering investigations in the use of snake venom for biotechnology purposes.

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