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Ayurveda towards translational pharmacology in the "omics" age

Ayurveda is one of the oldest traditional health care models. A Japanese folklore says, when a kingdom faces complex problems, the workers take advice of experience based knowledge from the aged people. Likewise the knowledge of Ayurveda can aid modern drug development. In the disease pattern scenario, blockbuster drugs are proving to be futile. On the contrary, "omics" level understanding of the molecular mechanisms of diseases is churning out novel treatment modules. It needs time for tests and huge finance. This is the opportune moment when thousands of years old experience based knowledge of Ayurveda regarding biology, chemistry and inorganic biology must be integrated to "Omics" level understanding through translational research. We must keep into account that human body has undergone evolutionary changes through time. These new factors may result in evaluation, redesigning and better drug development towards safer therapeutics. In this presentation, some perceptions in the lines of serotonin research will be highlighted. Serotonin which may be termed as "heaven's molecule" is linked to multiple implications which have been translated in Ayurvedic terms as *Amlapitta* diseased condition related to neuro-gut axis signalling. Its implications can also be seen in geriatrics, diabetes, tuberculosis, etc. These newer understandings will take Ayurveda way forward in the "Omics" age with moderation. Translational pharmacology can be utilized for rationalization of evidence based Ayurvedic medicine for advancement in health research.

Biography

Born in traditional Ayurveda family (1946), son of Kaviraj L. G. Debnath. Schooling 1961, Ayurveda graduation 1966, J.B. Roy State Ayurveda College, M D (Ay) Kayachikitsa BHU working on Therapeutic uses of Cobra venom to provide evidence to his family practice, Ph.D in 1977 on "Role of Serotonin on gastric activity in relation to Amlapitta", Dept of Pharmacology, IMS, BHU. He is a fellow of R.A.V and Indian Pharmacological Society. Recipient of "Uvna's Prize", elected President Indian Science Congress in 2002. Retired, Prof Kayachikitsa, Head Panchakarma and Clinical Research (2006) presently, Director. Produced many MDs, Ph.D, M.Tec, M.Vsc, 180 plus publication.

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