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New horizon of nanotechnology in phytomedicine

Nanomaterials play key roles in science and technology during 21st century. The science and technology of nanomaterials created great excitement and expectations in the last few years. The next decade is likely to witness major strides in the preparation, characterization and exploitation of nanoparticles, nanomaterials and healthcare products, etc. For most earth's 7 billion people, plant based on many well established system of medicine in either crude extract form represent the foundation of primary health care for the foreseeable future. Under these circumstances, traditional medicines must be safe, effective and technology continued to evolve many opportunities exist to improve continuously traditional medicine produces for both the internal and external therapeutic potential. To explore and preserve our traditional heritage of Indian system of medicine it is right time to rationalize the use of phytomedicine and the multidisciplinary issues on disease management research including, development of traditional medicine, herbal formulation, dietary supplements, phytochemical and pharmaceuticals from nature resources exploring their quality efficacy and safety. Plants have always played a major role in the treatment of human and animal diseases. A medicinal plant is therapeutic resource much used by the traditional population of the world specifically for the health care. Worldwide interest in the use of medicinal and aromatic plants is increasing. Beneficial effects of plants based medicines and other plant based products are being rediscovered. A careful study on the implications of the phytomedicines and well defined interventions will prosper the domain of phytomedicine.

Biography

M Suriyavathana has completed her PhD in Bharathiar University, Coimbatore and upholding the position of Assistant Professor in Department of Biochemistry, Periyar University, Salem, Tamil Nadu, India. Her area of specialization is on medicinal plants and plant therapeutics, green nanotechnology and clinical biochemistry. Currently she is a Member in Centre for Nanoscience and Nanotechnology of Periyar University, Salem. She has nearly 70 research publications in referred and non-referred journals. She has authored two books Nutraceuticals the Future Safe Medicine and Biochemical Characterization in Cassava. She has completed five minor and one major research projects national and state levels. She has been honored and recipient of Dr. APJ Abdul Kalam Award for Teaching/Scientific Excellence-2015, AUFAU International award for Outstanding Researcher in Plant Therapeutics and Clinical Biochemistry in 2016.

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