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Method Development and Validation of Traditional Herbal Medicines by HP-TLC

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The traditional practices of many crucial ethnic herbal medicines includes use of oils, herbs and related composition, collected from wild or cultivated fields. However, significant concern over authenticity and safety of the same has been growing concern from past few decades, reasons being their sources, collection and extraction methods, storage, transportation etc. The changes occurring inside composition of herbs or related medicines in every above mentioned conditions is must and if avoided can pose great risk to mankind. The cases of adulteration, deliberate mixing of low grade and substandard materials is also rising remarkably over the years. Sale of non-toxic herbs with those of potential poisonous effect is common as in cases of aconite roots or nux vomica seeds. Along with the conventional pharmacological screening methods of *in-vivo* ex vivo, in-situ techniques, the combined use of sophisticated and advanced chromatographic and spectroscopic techniques like TLC-MS, LC-MS, GC-MS-MS, ICP-MS seems to be promising tool breaking barriers of identification and detection of components of interest at trace levels (ppm & ppb), in turn providing helping to existing conventional methods. The present study focuses on advances in analytical instrumentation particularly in analysis of natural medicines and herbs where adulteration of toxic components seems to be raising concern in respect of safety and efficacy for mankind post consumption. From the present study an effort is made to develop newer analytical methods using GMP and GLP guidelines and other regulatory protocols, not implemented in conventional methods thereby providing scientific, effective and reliable tools in analysis of herbs and related natural medicines.

Biography:

Amruta Balekundri currently, pursuing her postgraduate study in Pharmaceutical Quality Assurance at KLE Academy of Higher Education and Research, Belagavi, India. She is active member of Society of Ethnopharmacology (SFE) and Society of Pharmacognosy and has hands on experience on HP-TLC, UV and HPLC. Further, she has presented her research work at various National and International conferences like Advances in drug discovery and development, Kaher, Manipal University, India.