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4. Area of Specialization: Pharmacognosy
5. Highlight of Research work (100 words)



My research interests include: a) Development and validation of analytical method for estimation of analytical markers in medicinal plants & formulations. b) Isolation, characterization, and structural elucidation of secondary metabolites from medicinal plants and other natural sources. c) Bioactivity directed fractionation and isolation of natural substances. d) Chemical/biological standardization of herbal drugs. e) Development of evidence-based herbal products. f) Stability testing of Pharmaceutical raw material, intermediates and finished products.

List of latest publications

Sharma P, Batra S, **Kumar A** and Sharma A. *In vivo* antianxiety and antidepressant activity of *Murraya paniculata* leaf extracts. *Journal of Integrative Medicine* 15 (4): 320-325 (2017).

Singh J, **Kumar A** and Sharma A. Antianxiety activity guided isolation and characterization of bergenin from *Caesalpinia digyna* Rottler roots. *Journal of Ethnopharmacology* 195 :182-187 (2016).

Dahiya J, Singh J, **Kumar A** and Sharma A. Isolation, characterization and quantification of an anxiolytic constituent - mahanimbine, from *Murraya koenigii* Linn. Spreng Leaves. *Journal of Ethnopharmacology* 193 :706-711 (2016).

Batra S., **Kumar A** and Sharma A. Authentication of morphologically similar rhizome drugs based on TLC fingerprint profiles and valerianic acid content. *International Journal of Pharmaceutical Sciences and Research* 7(8): 3428-31 (2016).

Pathania A., Batra S., Sharma A. and **Kumar A**. Development of TLC densitometric method for the quantification of valerianic acid in volatile oil of *Selinum vaginatum* roots. *Indian Drugs* 53(04), 63-65(2016).

Singh J, **Kumar A** and Sharma A. Bioactivity guided fractionation of ethanol extract of *Caesalpinia digyna* Rottler roots. *Pharmacognosy Journal*, 8(2), 165-167 (2016).

Kumar A., Singh J. and Sharma A. Comparative antianxiety activity evaluation of *Argyreia speciosa* Linn. (roots), *Caesalpinia digyna* Rottler (roots) and *Sphaeranthus indicus* Linn. (flowers). *International Journal of Pharmaceutical Sciences and Research* 6(10): 4226-4229 (2015).