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Significance of Terpenoids through GC-MS analysis derived from *Anisomeles indica* (L.) Kuntze

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In India aromatic plants play an important role in the country's agricultural profile due to their application in various fields, its cultivation can help small-scale farmers to strengthen their livelihoods. Terpenoids or isoprenoids are a family of compounds with great structural diversity which are essential for all living organisms 40,000 different terpenoids exist in nature, many of which are of plant origin. The largest group of plant secondary metabolites is terpenoids which are also known as isoprenoids *Labiatae* is commonly known as *mint* family. *Anisomeles* is an aromatic genus that belonging to the family. The genus was described by Robert Brown (1810). The members of this genus are characterized by the presence of glandular hairs on the floral parts. *Anisomeles indica* Linn. (Indian Catmint) is locally known as Kala bhangra. Tribal community traditionally used this plant as a diuretic, the experimental evidence obtained in the laboratory also confirmed that the leaves extract of plant act as diuretic. *Anisomeles indica* was assessed for its potential inhibitory activity against unwanted weeds crop. Phytochemical examination revealed the presence of various oil in Inflorescence of plant these are Camphene, Isophorone, P-Mentha, Sylvestrene, Bergamotene.

Keywords : Lamiaceae, GC-MS analysis, Terpenoids, *Anisomeles indica*

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Structural and Magnetic properties of Cr^{3+} Substituted Ni-Zn Spinel Ferrite Nanocrystals prepared by Sol-gel Auto-combustion Route

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Polycrystalline Ni-Zn spinel nanocrystals with Cr^{3+} substitution was produced through the sol-gel auto-combustion method. The structural, vibrational spectroscopic,