

## Editorial Announcement

T Dinesh Kumar

### Editorial

The human immune system plays a vital role in the defence against foreign as well as self-antigens like tumour antigens. Chemotaxis is essential for the release of inflammatory mediators capable of producing an immune reaction at the site of infection or targeting tumour cells. Allopathic immunomodulatory drugs, although potent, come with their fair share of disadvantages like hepatotoxicity, intestinal and oral mucositis. We evaluated the immunomodulatory activity of herbal concoctions in boosting the chemotactic activity, intracellular killing property and antitumour activity. Neutrophils and lymphocytes were isolated from peripheral blood using magnetic bead separation. Immunomodulatory effect of Triphala on the chemotactic activity of leukocytes was evaluated using modified Boyden's transmigration chamber. Intracellular killing activity of Neutrophils was evaluated spectrophotometrically using Nitroblue Tetrazolium (NBT) reduction method. Antitumour activity of the Triphala enhanced lymphocytes was evaluated using MTT assay on Human Oral squamous cell carcinoma cell lines. The results of the study revealed Triphala enhanced the chemotactic, intracellular killing and antitumour activity of Leukocytes in a dose-dependent manner. The results indicate that herbal concoctions can be used as an alternative to chemotherapeutic immunomodulation in case of immunodeficiency as well as in cancer immunotherapy and precision medicine.