

Comparative evaluation study of phytochemicals and therapeutic activity in solanaceae family plants

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Solanaceae is a large family in plant Kingdom. There are more than 3000 species in Solanaceae family worldwide. Species from Solanaceae family is the integral part of human as a food as well as drug since thousands of years. Even some edible plants also cause problems because of their phytoconstituents and their difference in concentration. Different species of this family plants are used for their different therapeutic values. Generally, we can say the common phytoconstituents like tropane alkaloids are the most important phytoconstituent for their therapeutic activity, but in this study used to focus different phytochemicals other than tropane alkaloids and its pharmacological activities. Some of these species were subjected for molecular genetic research in the last 100 years. The comparative genome analysis of tomato, pepper, and eggplant contributed to the understanding of plant genome evaluation. Most of the plants are used in traditional system of medicines for their potential benefits against cardiovascular and anti-inflammatory diseases, vision related diseases such as age related macular degeneration and glaucoma, having neuro protective properties anticancer and immune modulatory activity due to the presence of phytochemical molecules present in these species. Special methods have been developed for isolating commercially useful alkaloids. Special methods have been developed for isolating commercially useful alkaloids. In most cases, plant tissue is processed to obtain aqueous solutions of the alkaloids. The alkaloids are then recovered from the

solution by different methods of extraction process, which involves dissolving some components of the mixture with special reagents. Different alkaloids must then be separated and purified from the mixture. Solanaceae families contains a diverse range of alkaloids, Presences of these alkaloids make this family medicinally important, though they are therapeutically parasymapathomimetics; overdose may include various adverse effects. So, dose should be strictly decided and monitored.

Biography

V E Ida Christi, A professor dedicated her life for learning and gaining knowledge and helped to develop young minds through teaching with professional socialization. She obtained her degree BSc (Botany) M Pharm (Pharmacognosy) PhD in Pharmacy. Further she has got two Post Graduate Diploma in Hospital Management and Business Management. She has 4 years' Industrial experience, 1-year hospital experience and 20 years teaching experience. she has published a book titled "Herbal Drug Technology" and published 26 research papers. She has received "Best Faculty Award" and "Women Researcher Award" from Science Father International Research Awards SHEN 2020. Presently she is working as a professor in PSG College of Pharmacy, Coimbatore, South India. She has presented about 12 research papers and participated in more than 20 seminars, and national and international conferences. She believes that one of an important source of developing professional identity is teaching practice, role models make things easier for students learning and enable the patient-facing professionals, experiential learning and curriculum alignment with work practices in the pharma profession.

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Received date: 21 June 2022; **Accepted date:** 23 June 2022; **Published date:** 30 August 2022