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## NATURAL COMPOUND FROM AROMATIC PLANTS AND USAGE AS BIO-ACTIVITY PRODUCTS IN IRAN

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Botanicals and herbal preparations for medicinal usage contain various types of bioactive compounds. The benefits of aromatic plants extract, or essential oils have been used in remedy purposes since ancient time. Natural products provide unlimited opportunities for contain various types of bioactive compounds and new drug, because of the chemical diversity interest particularly in aromatic plants, usage and diamonds of different herbs has grown throughout the world. The Persian physician Avicenna (980 - 1,037 AD) that is being credited with perfecting the distillation process of essential oils found in the seeds, bark, stems, roots, flowers of plants. It gives plants their distinctive smells and provides plants with protection against disease. Iran also is very famous in producing essential oil and water extraction from national plants spatially *Rosa damacena* and *menthe spp*. All essential oil Samples were analysed by GC and GC/MS. The main constituents of oil extracted traditionally, samples were extracted by two hydro distillation method which designed by authors in Research Institute of Forests and Rangelands. were analyz and find it citronellol, cis-p-menth -2-en-1-ol and geraniol in *Rosa damecena*. These compounds and others are very popular in producing drug and effects as anti-cancer, anti-bacterial out of that and we should take care of over doses or toxicology. Iran, on herbal played a key role in connecting various cultures and civilizations. Ethno-herbal and phyto- chemical dates back to a long time ago and a number of writings regarding this issue are left by great physicians e.g. Avicenna and Rhazes. The focus of this paper is on the analytical methodologies, which include the extraction, isolation and characterization of active ingredients in herbal preparations.



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