

## Part of the Therapeutic Plants: Beware of Toxicity

Serrano Hill\*

Department of Pathology, Princess Margaret Hospital, Laichikok, Hong Kong

**Corresponding author:** Serrano Hill, Department of Pathology, Princess Margaret Hospital, Laichikok, Hong Kong, E-mail: Serrano\_h@pmh.hk

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### Description

Due to its diverse climate and topography, the Maneh-Semelghan county in North Khorasan province has a wealth of diverse and valuable vegetation reserves, many of which contain medicinal plants. This study's findings indicate that the Asteraceae family, which includes 20 species of medicinal plants, had the greatest number of species. The Lamiaceae family, with its 18 medicinal plant species, had the most species. The families of the Rosaceae and Apiaceae followed, each with 12 and 13 species.

For carrying out additional pure and applied ecological research, it is essential to identify the vegetation of each region. Particularly in the Northern Khorasan Territory that one of a kind biological and climatic circumstances make it a unique natural surroundings for the floristic studies. A significant portion of the Maneh-Semelghan region is made up of rangelands. Rangelands are extremely important to the people living in this region; They get their food, medicine, livestock, and other supplies from range plants. Consequently, distinguishing floristic rundown of restorative plants of this locale is gainful for safeguarding the imperiled plants and for arranging a maintainable utilization of therapeutic plants. Notwithstanding the numerous restorative plant species are undermined with annihilation in the locale because of multiple factors and it is important to recognize and secured.

### Fragrant Plants

Juniper evergreen timberlands, broadleaf backwoods of oak, hawthorn and pistachios and safeguarded areas of Golestan and Darkesh are significant assets and important stores of Diary of Plant Sciences, restorative plants and rangelands in Maneh-Semelghan. Many medicinal plants have local names because people are familiar with them, and they are widely used in traditional medicine. There are approximately 79 species of medicinal plants that are known to exist in the Darkesh region of Manehsamalghan because of the county's extensive plant diversity.

As a result, the primary motivation for this study was a dearth of comprehensive information about the medicinal plants of Maneh-Semelghan. The primary objective was to survey the flora and determine the primary chorotypes and phenotypes of medicinal plants in the Maneh-Semelghan region. Consequence

of this study can likewise be utilized for the applied specialists and regular assets specialists like rangeland the board and protection

Maneh-Semelghan District because of elevation and geology, streams and fields, has an enormous climate variety and overall has bumpy, calm and semi-desert environments. so that the county's relative humidity is low and increases from east to west. The average annual rainfall is 252 millimeters, and the absolute maximum temperature is 40 degrees Celsius in July and August, the warmest months, and the absolute minimum temperature is -18 degrees Celsius in January, the coldest month. The list of medicinal plants was compiled after five years of research, initially based on both documented and undocumented sources of plants that were thought to be pharmaceutical. Calendars for admission to different parts of the Maneh-Semelghan region were made because different parts of the region had different phenology and flowering times and had different climates. Then the restorative plants had been accumulated from the locale. A number of ecological considerations had been taken into account in addition to the gathering of medicinal plants. The species' applied parts were derived from a variety of sources, including local knowledge and, specifically, Identification of Iranian Medicinal and Aromatic Plants. According to these Flora, the status of these species' distribution status has been determined in this manner. The Raunkiaer criterion was used to identify the life form.

### Medicinal Plant

A few of the species found in this region appear to be naturally uncommon. The majority of recent population declines that have been documented can be attributed to human activity raising the risk of extinction due to their smaller populations. The construction of a public road, for instance, had a significant impact on population size. Other biological factors, like the longevity of plants and the absence of significant levels of herbivore destruction, do not appear to put the species's short-term survival in jeopardy. The percentage of endemic specimens has shown a relatively noticeable percentage of all species, according to the chorotype percentage of medicinal plants in the studied area.

Therophytes were found to be the most significant groups in a life form study conducted in the Iran region of Behbahan. In this study, 78% of the species of life were Therophytes, 7.2% were

Geophytes, 7.1% were Phanerophytes, 4.9% were Hemicryptophytes, and 2.4% were Chamaephytes. An examination of various life forms in the Sarshiv Area of Marivan, Iran, revealed a variety of plants belonging to various life forms. Terophytes (35 percent) and Chamaephytes (3 percent) had the highest and lowest number of plant species out of all of them. The review of the plants' geographical distribution in the region revealed that the species belonged to various chorotypes, with Irano-Turkish (50 percent) and European-Siberian (1 percent) having the highest and lowest percentages, respectively.

Life forms are closely linked to their surroundings. Archibold says that the number of hemicryptophytes in a place is a sign of the cold, mountainous climate. Pay attention to the abundance of Hemicryptophytes plants, which have been influenced by the region's cold, wet climate. In their study of the flora of the Miandasht Wildlife Refuge in Northern Khorassan Province, Iran, Rahimi and Atri noted that the majority of the species that had

been identified were Irano-Turanian. They also mentioned that a significant number of plant species in the river forest of Behbahan, Iran, belonged to the regions of Irano-Turanian and common areas of Irano-Turanian and Mediterranean eruption, making them the most significant ecological groups. In the Northern areas of Khorassan research showed that 11.6% (29 of every one of the 256) plant species were endemic.

The ManehSemelghan Rangelands are rich in medicinal plants. They are significant because they make health care available to the local population. With the presentation of new strategies for wellbeing in numerous native networks, non-native drugs are replacing customary meds. Restorative plant information has been demonstrated to be more helpless to the assimilation than different classifications of plant information. The genetic pool of medicinal plant resources is valuable and ought to be protected. Even if they aren't used right now, they might be absolutely necessary in the near future.