

THE ROLE OF MEDICINAL AROMATIC PLANTS IN THE BIOLOGICAL CONTROL OF AGRICULTURAL PESTS

Evrin Sönmez¹

ABSTRACT

Medicinal and aromatic plants have been widely used by people in alternative medicine for centuries. In addition, it is used against various harmful organisms with chemicals such as terpenoids, alkaloids and flavonoids it contains. Plants synthesize these chemicals in order to protect themselves from external factors and other harmful organisms and to survive. These chemicals are called secondary metabolites and are also used as raw materials in the pharmaceutical industry. Since ancient times, some plants have been used for their insect repellent and killing effects. It has been determined that about 200 of approximately 200.000 plant species in the world have pesticide effects. However, it has been reported that only 1% of it is utilized. Agriculturally harmful insects are responsible for the loss of significant amounts of agricultural products in agricultural fields and silos. These extracts, which are obtained by different extraction methods from various parts of medicinal and aromatic plants such as roots, stems, tubers, leaves, seeds, flowers, have recently attracted a lot of attention by producers and researchers. Pyrethrum, Rotenone, Nicotine and Neem, which are the compounds of these extracts, are known to have pesticide effects on many harmful insects and are even sold as bioinsecticides by some commercial companies. Since they are of plant origin, no adverse side effects have been reported in the physiology and metabolism of living organisms. In recent years, extracts of medicinal and aromatic plants have been preferred by researchers and producers because they do not harm nature, do not leave any residue by disintegrating in water, and

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Vol7

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






































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