

3<sup>RD</sup> WORLD CONGRESS ON

# MEDICINAL PLANTS AND NATURAL PRODUCTS RESEARCH

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## *Mohammad Bagher Rezaee*

Research Institute of Forests and Rangelands, Iran

### **Study of variation of essential oil content and chemical composition of *Anthemis wiedemanniana* Fisch, et Mey., at different phenological stages and natural habitats in West Azerbaijan (Iran)**

The genus *Anthemis* L., is the second largest in the Asteraceae family consists of more than 210 species. In this research, 5 populations of *Anthemis wiedemanniana* Fisch, et Mey., from 3 bioclimatic in West Azerbaijan at three phenological stages including vegetative, flowering and fruiting stages were harvested. Essential oil of aerial parts was extracted by water - distillation method (Clevenger apparatus) and was analyzed by GC and GC/MS. The results showed that the highest oil content was obtained from Ghiz Galeh of Miandoab region at three phenological stages that were 0.7, 0.88 and 0.75%, respectively. The lowest amount of essential oil content was obtained from Razhan region that were 0.43, 0.55 and 0.50%, respectively. Also, analysis of results showed that plant essential oils have active ingredients of different quality and quantity at various growth stages and different habitats and accordingly will have different pharmaceutical uses.

#### **Biography**

Mohammad Bagher Rezaee has extended his valuable service as a Professor in Department of Medicinal Plants in Research Institute Forests and Rangelands. Currently he is working on extraction and purification of components from medicinal, aromatic and poisonous plants by different methods.

[Mb.rezaee@gmail.com](mailto:Mb.rezaee@gmail.com)

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