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PROGRAMME BOOK

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2021

POSTER SESSION 1.2		Session Chair: Assist. Prof. Dr. Gülbin Erdoğan	Time 18:30 - 20:00
1	261- The theoretical approach studies for flunarizine drug as safely corrosion inhibitor using DFT method Mesutcan Şahin, Nurettin Mete Kaleli, Pınar Acar Bozkurt*, Meral Yaşar, Kaan Cebesoy Emregül		
2	269- Chemically Modified Alginate-Based Biocomposites for Efficient Removal of Reactive Blue 2 Dye from Aqueous Media Selin Burcu ANGI*, Gülay BAYRAMOĞLU		
3	271- Characterization of Polymer Coated Chitosan with Magnetite Nanoparticles for the Adsorption of Methylene Blue: Kinetics, Thermodynamics And Desorption Studies Feyza Nur KESKİN, Gülay BAYRAMOĞLU		
4	273- Design of a Core-Shell Type Apta-Magnetic Separation System for Pre-Concentration of microorganism Feyza Nur KESKİN, Gülay BAYRAMOĞLU		
5	393- Chemical fingerprint analysis of some <i>Centaurea</i> species by reverse phase HPLC method Beste Atli*, Ozlem Bahadir Acikara, Muberra Kosar		
6	501- Effect of the anionic azo dye Tartrazine in lyotropic mixtures presenting uniaxial and biaxial nematic phases Merve Tabak, Nazli UYGUR*, Erol AKPINAR		
7	502- Effect of the interactions between surfactant and drug on the formation of different lyotropic nematic phases Merve Tabak, Nazli UYGUR*, Erol AKPINAR		
8	267- Determination of Stability Constants of Acylthiourea Derivatives Çağla Efeoğlu*, Elize Karasu, Yahya Nural*		
9	281- Synthesis and Chemosensor Properties of Bis-triazole Derivatives İrem Acar*, Çağla Efeoğlu, F. Nazlı Dinçer Kaya, Yahya Nural*		
10	573- Bioactive properties of Halhalı olive and by-products Kadir Batçioğlu, F.zehra Küçükbay*		
11	703- Analytical methods used in the determination of antioxidant capacity of <i>origanum</i> species Elif Çatallar, Ayşen Kurt Cücü*		
12	704- Analytical studies on the antioxidant activity of rosemary (<i>Rosmarinus officinalis</i> L.) Cansu Ceran, Ayşen Kurt Cücü*		
13	705- Fenolic components of <i>Arum Maculatum</i> L. and analytical methods used in the determination of antioxidant activity Cihan Örü, Gülbin Erdoğan*		
Discussion			

POSTER PRESENTATION

Fenolic components of *Arum Maculatum* L. and analytical methods used in the determination of antioxidant activity

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Abstract

Medicinal plants have been of great importance in the treatment and protection of diseases since ancient times. The best way to protect against diseases is to make the immune system active and strong. *Arum maculatum* L. is a perennial tuberous plant belonging to the Araceae family. Wild *Arum* is native from Europe to Western Turkey and the Western Caucasus. They are found in wooded areas and along rivers and streams.

Arum maculatum L., which can be found in different species all over the world, has been used and continues to be used in a wide variety of medical applications, although it is toxic. It is used by the public as an antipyretic, expectorant and for the treatment of intestinal parasites. In this review study, the total phenolic components and antioxidant capacity of *Arum maculatum* L. were investigated. According to the data obtained, it is seen that *Arum maculatum* L. is a good source of antioxidants based on the antioxidant activity determination methods. DPPH(1,1-diphenyl 2-picrylhydrazil), Beta-carotene bleaching, ORAC, CUPRAC(Copper(I) reducing antioxidant activity), ABTS(2,2'azinobis (3-ethylbenzothiazoline-6-sulfonic acid) used to determine antioxidant activity), FRAP (Ferric ion reduction ability) methods were examined. In the review, it is emphasized that the leaf extracts and fruits of *Arum Maculatum* L. should be used in the treatment with medicinal plants, taking into account their toxic effects.

Key words: *Arum Maculatum* L., Antioxidant Activity, DPPH, ABTS, ORAC, FRAP.

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