

## Prof. Dr. SEMA AYAZ

### Kişisel Bilgiler

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ScopusID: 6602693286

Yoksis Araştırmacı ID: 7506

### Eğitim Bilgileri

Doktora, Karadeniz Teknik Üniversitesi, Fen Bilimleri, Biyoloji, Türkiye 1981 - 1997

Yüksek Lisans, Karadeniz Teknik Üniversitesi, Fen Bilimleri, Biyoloji, Türkiye 1988 - 1991

Lisans, Karadeniz Teknik Üniversitesi, Fen Fakültesi, Biyoloji, Türkiye 1984 - 1988

### Araştırma Alanları

Yaşam Bilimleri, Bitki Biyolojisi, Bitki Anatomisi, Sistematik Botanik, Temel Bilimler

### Akademik Unvanlar / Görevler

Prof. Dr., Karadeniz Teknik Üniversitesi, Fen Fakültesi, Biyoloji, 2007 - Devam Ediyor

Doç. Dr., Karadeniz Teknik Üniversitesi, Fen Fakültesi, Biyoloji, 2002 - 2007

Yrd. Doç. Dr., Karadeniz Teknik Üniversitesi, Fen Fakültesi, Biyoloji, 1999 - 2002

Araştırma Görevlisi, Karadeniz Teknik Üniversitesi, Fen Fakültesi, Biyoloji, 1992 - 1999

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- The Phenolics and Antioxidant Properties of Black and Purple versus White Eggplant Cultivars**  
ÇOLAK N., Kurt-Celebi A., Gruz J., Strnad M., Hayirlioglu-Ayaz S., Choung M., Esatbeyoglu T., AYAZ F. A.  
MOLECULES, cilt.27, sa.8, 2022 (SCI-Expanded)
- Vitis vinifera* Turkish novel table grape 'Karaerik'. Part II: Non-anthocyanin phenolic composition and antioxidant capacity**  
Perez-Navarro J., Hermosin-Gutierrez I., Gomez-Alonso S., Kurt-Celebi A., Çolak N., Hayirlioglu-Ayaz S., Ayaz F. A., Akpınar E.  
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- Accumulation of Phenolic Compounds and Antioxidant Capacity during Berry Development in Black 'Isabel' Grape (*Vitis vinifera* L. x *Vitis labrusca* L.)**  
Kurt-Celebi A., Çolak N., Hayirlioglu-Ayaz S., Velickovska S. K., Ilieva F., Esatbeyoglu T., Ayaz F. A.  
MOLECULES, sa.17, 2020 (SCI-Expanded)
- Vitis vinifera* Turkish grape cultivar Karaerik. Part I: anthocyanin composition, and identification of a newly found anthocyanin†**

Hermosin-Gutierrez I., Gomez-Alonso S., Perez-Navarro J., KURT A., ÇOLAK N., AKPINAR E., Hayirlioglu-Ayaz S., AYAZ F. A.

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- V. **A genome size and phylogenetic survey of Mediterranean *Tripleurospermum* and *Matricaria* (Anthemideae, Asteraceae)**  
İNCEER H., GARNATJE T., Hayirlioglu-Ayaz S., PERE PASCUAL-DIAZ J., VALLES J., GARCIA S.  
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- VI. **Achene anatomy and stomatal characteristics of eighteen *Crepis* L. (Asteraceae) taxa from Turkey with notes on their systematic significance**  
İNCEER H., KALMUK N. A., İmamoğlu K. V., Arslan G., Duman O., Hayirlioglu-Ayaz S., GUNER G.  
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- VII. **Nutrient profiles of the hybrid grape cultivar 'Isabel' during berry maturation and ripening**  
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- VIII. **Nutritional Evaluation of an Outstanding Apple Cultivar, Göbek ( *Malus /i i /i i communis /i L.*)**  
Çolak N., Kolcuoğlu Y., Tarkowski P., Benicka S., Çolak A., Ayaz S., Ayaz F. A.  
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- IX. **Micromorphological, anatomical and cytogenetical studies in endemic *Crepis macropus* Boiss. & Heldr. (Asteraceae) from Turkey**  
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- X. **Bog bilberry phenolics, antioxidant capacity and nutrient profile**  
ÇOLAK N., TORUN H., GRUZ J., STRNAD M., Hermosin-Gutierrez I., HAYIRLIOGLU-AYAZ S., AYAZ F. A.  
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- XI. **Achene Fatty Acid Composition in the Tribe Anthemideae (Asteraceae)**  
AYAZ F. A., İNCEER H., Hayirlioglu-Ayaz S., AKSU-KALMUK N.  
ROMANIAN BIOTECHNOLOGICAL LETTERS, sa.3, ss.11576-11584, 2016 (SCI-Expanded)
- XII. **Evaluation of chemical profile and antioxidant activity of *Tripleurospermum insular*, a new species from Turkey**  
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- XIII. **Evaluation of chemical profile and antioxidant activity of *Tripleurospermum insularum*, a new species from Turkey**  
ZELJKOVIC S. C., AYAZ F. A., İNCEER H., Hayirlioglu-Ayaz S., ÇOLAK N.  
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- XIV. ***Tripleurospermum insularum* (Asteraceae, Anthemideae), a new species from Turkey**  
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- XV. **The comparative pollen morphology of genera *Matricaria* L. and *Tripleurospermum* Sch Bip. (Asteraceae) in Turkey**  
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- XVI. **Karyotype analysis of six *Achillea* L. (Asteraceae, Anthemideae) taxa from Turkey**  
Aksu N., İNCEER H., Hayirlioglu-Ayaz S.  
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- XVII. **Effects of Quizalofop-*p*-Ethyl Herbicide on the Somatic Chromosomes of *Helianthus annuus* (Sunflower)**  
Karaismailoglu M. C., İNCEER H., Hayirlioglu-Ayaz S.  
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- XVIII. **Chromosome numbers in *Tripleurospermum* Sch Bip. (Asteraceae) and closely related genera: relationships between ploidy level and stomatal length**

- İNCEER H., AYAZ S.  
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- XIX. **Karyotype variation within some native populations of oriental spruce (*Picea orientalis*) in Turkey**  
İNCEER H., GÜNEY D., Hayirlioglu-Ayaz S., OZCAN M., TURNA İ., ÜÇLER A. Ö.  
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- XX. **Genotoxic Effects of the Insecticide Cypermethrin on the Root Meristem Cells of Sunflowers (*Helianthus annuus* L.)**  
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- XXI. **THREE NEW *ALCHEMILLA* L. (ROSACEAE) RECORDS FROM TURKEY**  
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- XXII. **Characterization of Anthocyanins in Caucasian Blueberries (*Vaccinium arctostaphylos* L.) Native to Turkey**  
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- XXIII. ***Tripleurospermum ziganaense* (Asteraceae, Anthemideae), a new species from north-east Anatolia, Turkey**  
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- XXIV. **Chromosome counts of some *Cirsium* (Asteraceae, Cardueae) taxa from Turkey**  
OZCAN M., HAYIRLIOGLU-AYAZ S., İNCEER H.  
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- XXV. **Phenolic acid contents of kale (*Brassica oleraceae* L. var. *acephala* DC.) extracts and their antioxidant and antibacterial activities**  
AYAZ F. A., Hayirlioglu-Ayaz S., Alpay-Karaoglu S., GRUZ J., VALENTOVA K., ULRICHOVA J., STRNAD M.  
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- XXVI. **Determination of chemical composition of anatolian carob pod (*Ceratonia siliqua* L.): Sugars, amino and organic acids, minerals and phenolic compounds**  
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- XXVII. **Chromosome numbers of the twenty-two Turkish plant species**  
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- XXVIII. **Chromosome numbers in the tribe Anthemideae (Asteraceae) from north-east Anatolia**  
Inceer H., Hayirlioglu-Ayaz S.  
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- XXIX. **Karyotype analysis of some *Lathyrus* L. taxa (Fabaceae) from northeastern Anatolia**  
OZCAN M., Hayirlioglu-Ayaz S., Inceer H.  
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- XXX. **Nutrient contents of kale (*Brassica oleraceae* L. var. *acephala* DC.)**  
Ayaz F., Glew R., Millson M., Huang H., Chuang L., Sanz C., Hayirlioglu-Ayaz S.  
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- XXXI. **Chromosome counts in the genus *Alchemilla* (*Rosaceae*) from SW Europe**  
Hayirlioglu-Ayaz S., Inceer H., FROST-OLSEN P.  
FOLIA GEOBOTANICA, sa.3, ss.335-344, 2006 (SCI-Expanded)
- XXXII. **Notes on chromosome numbers and karyotypes of five species in *Hieracium* L. s.str. (Asteraceae) from Turkey**  
Coskuncelebi K., Hayirlioglu-Ayaz S.  
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- XXXIII. **Separation, characterization, and quantitation of phenolic acids in a little-known blueberry**

- (*Vaccinium arctostaphylos* L.) fruit by HPLC-MS  
Ayaz F. A., Hayirlioglu-Ayaz S., GRUZ J., NOVAK O., STRNAD M.  
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- XXXIV. **GC-MS analysis of chloroform extracts in flowers, stems, and roots of *Tripleurospermum callosum***  
YASAR A., UCUNCU O., GULEC C., Inceer H., AYAZ S., YAYLI N.  
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- XXXV. **Chromosome numbers of some species of the genus *Hieracium* Str. (*Asteraceae*) from Turkey**  
HAYIRLIOGLU-AYAZ S., Inceer H.  
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- XXXVI. **Chromosome counts of some *Primula* species (*Primulaceae*)**  
HAYIRLIOGLU-AYAZ S., Inceer H.  
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- XXXVII. **Cytotaxonomic studies on some *Euphorbia* L. (*Euphorbiaceae*) species in Turkey**  
HAYIRLIOGLU-AYAZ S., Inceer H., BEYAZOGLU O.  
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- XXXVIII. **Karyological study on some taxa of the genus *Lilium* L. (*Liliaceae*)**  
Inceer H., HAYIRLIOGLU-AYAZ S., BEYAZOGLU O.  
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- XXXIX. **Cytotaxonomic investigations on some taxa of the genus *Vicia* L. from north-eastern Anatolia**  
Inceer H., HAYIRLIOGLU-AYAZ S., BEYAZOGLU O.  
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- XL. **Chromosome numbers of some *Carex* species from Northeast Anatolia**  
Hayirlioglu-Ayaz S., Olgun A., Beyazoglu O.  
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- XLI. **Total phenols and condensed tannins in the leaves of some *Alchemilla* species**  
Ayaz F. A., Hayirlioglu-Ayaz S.  
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- XLII. **Chromosome number of some *Alchemilla* L. (*Rosaceae*) species**  
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- XLIII. **Chromosome numbers of *Alchemilla* series *Vulgares* from NE Anatolia (Turkey) - a preliminary report**  
Hayirlioglu-Ayaz S., Beyazoglu O.  
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- XLIV. **Chromosome counts of some *Alchemilla* species from series *Calycinae***  
Hayirlioglu-Ayaz S., Beyazoglu O.  
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- XLV. **Chromosome numbers in species of *Alchemilla* ser. *Elatae* (*Rosaceae*) in Turkey**  
Hayirlioglu-Ayaz S., Beyazoglu O.  
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- XLVI. **Karyotype analysis of some *Lilium* L. (*Liliaceae*) species from Turkey**  
Inceer H., BEYAZOGLU O., HAYIRLIOGLU-AYAZ S.  
PAKISTAN JOURNAL OF BOTANY, sa.2, ss.315-321, 1999 (SCI-Expanded)
- XLVII. **C-banded chromosomes of four *Vicia* L., species**  
Hayirlioglu-Ayaz S., Viinikka Y., Beyazoglu O.  
PAKISTAN JOURNAL OF BOTANY, sa.2, ss.307-313, 1999 (SCI-Expanded)
- XLVIII. **Fatty acid composition of leaf lipids of some *Alchemilla* L. (*Rosaceae*) species from Northeast Anatolia (Turkey)**  
Ayaz F. A., Hayirlioglu-Ayaz S., BEYAZOGLU O.

GRASAS Y ACEITES, sa.5, ss.341-344, 1999 (SCI-Expanded)

- XLIX. **determination of some Low Molecular Weight Carbohydrates from the Fruits of cherry Laurel (Laurocerasus officinalis Roem) Using Gas Chromatography**  
AYAZ F. A., KADIOĞLU A., AYAZ S.  
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## Diğer Dergilerde Yayınlanan Makaleler

- I. **Cytogenetic effects of copper chloride on the root tip cells of Helianthus annuus L**  
İNCEER H., AYAZ S., BEYAZOĞLU O., Şentürk E.  
Turkish Journal of Biology, cilt.27, ss.43-46, 2003 (Hakemli Dergi)
- II. **Determination of Some Mono- and Disaccharides in the Fruits of Diospyros lotus L. Using Gas Chromatography**  
AYAZ F. A., KADIOĞLU A., AYAZ S.  
TURKISH JOURNAL OF BOTANY, cilt.19, ss.493-495, 1995 (Scopus)

## Kitap & Kitap Bölümleri

- I. **Bitki çeşitliliği (Flora)**  
AYAZ S., İNCEER H.  
Başlangıçtan günümüze her yönüyle OF, Hikmet Öksüz, Mevhibe Çosar, Veysel Usta, Editör, Karadeniz Teknik Üniversitesi, Trabzon, ss.197-204, 2016

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **sugar composition in the achenes of three medicinal Matricaria L. (Asteraceae) taxa**  
İmamoğlu K. V., İNCEER H., AYAZ S., ÖZCAN M., AYAZ F. A.  
I. Inter national Congress on medicinal and aromatic plants, TABKON'xx17, Antalya, Türkiye, 9 - 12 Mayıs 2017
- II. **Phenolic Compound Content and Antioxidant Capacity of Endemic Tripleurospermum baytopianum and T. repens (Asteraceae) from Turkey**  
Karayiğit B., İNCEER H., ÇOLAK N., AYAZ S., AYAZ F. A.  
. International Congress on Medicinal and Aromatic Plants, 9 - 11 Mayıs 2017, ss.1338
- III. **Phenolic compound content and antioxidant capacity in fruits of some eggplant (Solanum melongena L.) cultivars**  
Karayiğit B., AYAZ S., Kurt A., ÇOLAK N., AYAZ F. A.  
International Congress on Medicinal and Aromatic Plants, 9 - 11 Mayıs 2017
- IV. **Sugars and organic acids in berries of Erzincan black grape (Vitis vinifera 'xxKaraerik'xx)**  
Kurt A., AYAZ S., ÇOLAK N., AKPINAR E., AYAZ F. A.  
International Congress on Medicinal and Aromatic Plants, 9 - 11 Mayıs 2017, ss.1348
- V. **Total phenolic content and antioxidant capacity in some representatives of the tribe Anthemideae Asteraceae from Turkey**  
ÇOLAK N., İNCEER H., AYAZ S., AYAZ F. A.  
Symposium on EuroAsian Biodiversity, 23 - 27 Mayıs 2016
- VI. **Total Phenolic Content and Antioxidant Capacity in Some Representatives of Tribe Anthemideae (Asteraceae) from Turkey**  
ÇOLAK N., İNCEER H., AYAZ S., AYAZ F. A.  
symposium on euroasian biodiversity, Antalya, Türkiye, 23 - 27 Mayıs 2016, cilt.1, sa.1, ss.264
- VII. **Micromorphological, anatomical and cytogenetical studies in endemic Crepis macropus Boiss. &**

**Heldr. (Asteraceae) from Turkey**

AKSU KALMUK N., İNCEER H., AYAZ S., İmamoğlu K. V., Duman Ö., Arslan G., Arslan G.  
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- VIII. **Üç Crepis L. (Asteraceae) Türünün Aken ve Pappus Mikromorfolojisi**  
AKSU KALMUK N., AYAZ S., İNCEER H., İmamoğlu K. V.  
22 Ulusal Biyoloji Kongresi, Eskişehir, Türkiye, 23 - 27 Haziran 2014, ss.614
- IX. **Endemik Tripleurospermum conoclinium T. rosellum var. album Taksonlarında Aken Musilaj yapısı ve Fonksiyonu**  
AKSU KALMUK N., İNCEER H., AYAZ S., Ustasüleyman M.  
22 Ulusal Biyoloji Kongresi, Eskişehir, Türkiye, 23 - 27 Haziran 2014, ss.955
- X. **Türkiye'de Yayılış Gösteren Üç Crepis L. (Asteraceae) Taksonun Karyolojik Yönden İncelenmesi**  
AKSU KALMUK N., İmamoğlu K. V., İNCEER H., AYAZ S.  
22 Ulusal Biyoloji Kongresi, Eskişehir, Türkiye, 23 - 27 Haziran 2014, ss.639
- XI. **Crepis alpina ve C. syriaca'nın Gövde, Yaprak ve Aken Anatomisi ile Aken Mikromorfolojisi**  
AKSU KALMUK N., İNCEER H., AYAZ S., İmamoğlu K. V., Duman Ö., Güner G., Arslan G.  
22 Ulusal Biyoloji Kongresi, Eskişehir, Türkiye, 23 - 27 Haziran 2014, ss.423
- XII. **İki Endemik Tripleurospermum Türünde (Asteraceae) Akenlerin Müsilaj Yapısı ve Fonksiyonu**  
AKSU KALMUK N., İNCEER H., Ustasüleyman M., AYAZ S.  
21. Ulusal Biyoloji Kongresi, İzmir, Türkiye, 3 - 07 Eylül 2012, ss.620-621
- XIII. **Türkiye'den Üç Crepis (Asteraceae) Taksonunun Karyotip Analizi**  
AKSU KALMUK N., İNCEER H., AYAZ S.  
21. Ulusal Biyoloji Kongresi, İzmir, Türkiye, 3 - 07 Eylül 2012, ss.555-556
- XIV. **The stem anatomy, karyology and fatty acid composition of endemic Tripleurospermum fissurale(Sosn.) E. Hossain from Turkey**  
AKSU KALMUK N., İNCEER H., AYAZ S., Özcan M., Bal M.  
Biosystematics, Berlin, Almanya, 21 - 27 Şubat 2011, ss.169
- XV. **Karyotype analysis of three Achillea L. (Asteraceae) taxa from Turkey**  
AKSU KALMUK N., İNCEER H., AYAZ S.  
Biosystematics, Berlin, Almanya, 21 - 27 Şubat 2011, ss.36-37
- XVI. **ENDEMİK TRIPLEUROSPERMUM CONOCLINIUM (BOISS. & BAL.) HAYEK VE T. HYGROPHILUM (BORNM.) BORNM. UN KARYOLOJİK YÖNDEN İNCELENMESİ**  
AKSU KALMUK N., İNCEER H., AYAZ S., Özcan M.  
20. Ulusal Biyoloji Kongresi, Denizli, Türkiye, 21 - 25 Haziran 2010, ss.471
- XVII. **CIRSIUM MACRDBOTRYS (c. KOCH) BoIss.,İN ANATOMİK YÖNDEN İNCELENMESİ**  
ÖZCAN M., HAYIRLIOĞLU-AYAZ S., İNCEER H., AKSU N.  
20. Ulusal Biyoloji Kongresi, Denizli, Türkiye, 21 - 25 Haziran 2010, ss.286-287
- XVIII. **Achillea Biebersteinii Afan. ve Achillea setacea Waldst.&Kit.'nın Karyotip Analizi**  
AKSU KALMUK N., İNCEER H., AYAZ S., Özcan M.  
20. Ulusal Biyoloji Kongresi, Denizli, Türkiye, 21 - 25 Haziran 2010, ss.471-472
- XIX. **CIRSIUM MACRDBOTRYS (c. KOCH) BoIss.,İN ANATOMİK YÖNDEN İNCELENMESİ**  
AKSU KALMUK N., İNCEER H., AYAZ S., Özcan M.  
20. Ulusal Biyoloji Kongresi, Denizli, Türkiye, 21 - 25 Haziran 2010, ss.286-287
- XX. **KARYOTYPE ANALYSIS OF THREE ENDEMIC TAXA IN TRIPLEUROSPERMUM SCH. BIP. (ASTERACEAE) FROM TURKEY AND ITS TAXONOMIC SIGNIFICANCE**  
AKSU KALMUK N., İNCEER H., AYAZ S., Özcan M., Bal M.  
XII Optima Meeting, Antalya, Türkiye, 22 - 26 Mart 2010, ss.119
- XXI. **Essential oil composition of Matricaria chamomilla var chamomilla and var recutita from Turkey**  
KÜRKÇÜOĞLU M., İNCEER H., AYAZ S., Başer K. H. C.  
57 International congress and annual meeting of the society for medicinal plant and natural product reserch, 16 - 20 Ağustos 2009

## **Metrikler**

Yayın: 73

Atıf (WoS): 772

Atıf (Scopus): 889

H-İndeks (WoS): 15

H-İndeks (Scopus): 15

## **Akademi Dışı Deneyim**

Karadeniz Teknik Üniversitesi