



8TH INTERNATIONAL ANATOLIAN AGRICULTURE FOOD, ENVIRONMENT AND BIOLOGY CONGRESS

11-12 Haziran 2026
Sinop - TÜRKİYE

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PROCEEDINGS BOOK

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PREFACE

Dear Colleagues...

The " 8th International Anatolian Agriculture, Food, Environment and Biology Congress (TARGID 2026) " has been held in Sinop/Türkiye on 11-12 June 2026, with the participation of scientists working in agriculture and related sciences, with the aim of sharing scientific developments, proposing scientific solutions to international problems, increasing cooperation and creating scientific outputs that will benefit humanity by using international resources economically.

A total of 296 papers from 37 countries were presented to our congress. Of these papers, 158 came from foreign countries and 138 came from Türkiye. The countries of the participants who submitted papers to the congress and the number of incoming papers are as follows: Algeria (5), Azerbaijan (5), Bangladesh (15), Benin (4), Bosnia and Herzegovina (1), Bulgaria (1), Chad (1), China (4), Côte d'Ivoire (1), Ethiopia (3), Ghana (4), Hungary (3), India (0), Iraq (1), Iran (11), Italy (5), Kazakhstan (5), Kenya (1), Malaysia (4), Moldova (1), Morocco (1), Nepal (5), Niger (3), Nigeria (25), Pakistan (18), Philippines (1), Poland (4), Somalia (2), Spain (1), Sri Lanka (7), Sudan (4), Tanzania (1), Tunisia (5), Uganda (2), Ukraine (1), United States (2), Zimbabwe (1), and Türkiye (138). The rate of international papers was 53.4%, while papers from Türkiye accounted for 46.6% of the total.

At the congress; participants discussed such topics as animal production, crop production, aquaculture, food science and technologies, agricultural technologies, soil science, sustainable agricultural systems, agricultural economics, genetics, biology, agricultural ecology, landscape architecture and agricultural environment issues related to original, advanced technology on agriculture and natural life.

During the organization and congress phases of TARGID 2026, Assoc. Prof. Dr. Burak Şen, Prof. Dr. Cem Baltacıoğlu, Assoc. Prof. Dr. Hande Baltacıoğlu, Assist. Prof. Dr. Mustafa Duman, Assist. Prof. Dr. Mutlu Bulut, Assist. Prof. Dr. Ali Kaan Yetik, Assist. Prof. Dr. Mehmet Yetişen, Ahmet Akyol, Furkan Baş, Muhammet Talha İnce, and Ulrich Sosthène Hodonou took on important responsibilities in the congress secretariat.

We would like to express our gratitude to all our stakeholders who supported the successful realization of our congress and all the scientists who participated and supported us with their papers.

Kind regards





ÖNSÖZ

Değerli Meslektaşlarımız,

Tarım ve ilgili bilim alanlarında çalışan bilim insanlarının katılımıyla gerçekleştirilen "8. Uluslararası Anadolu Tarım, Gıda, Çevre ve Biyoloji Kongresi (TARGID 2026)", bilimsel gelişmelerin paylaşılması, uluslararası sorunlara bilimsel çözümler sunulması, iş birliğinin artırılması ve uluslararası kaynakların ekonomik ve etkin bir şekilde kullanılması yoluyla insanlığa fayda sağlayacak bilimsel çıktılar oluşturulması amacıyla 11–12 Haziran 2026 tarihlerinde Sinop/Türkiye’de gerçekleştirilmiştir.

Kongremize 37 ülkeden toplam 296 bildiri sunulmuştur. Bu bildirilerin 158’i yabancı ülkelerden, 138’i ise Türkiye’den gelmiştir. Kongremize bildiri gönderen katılımcıların ülkeleri ve gönderilen bildiri sayıları şu şekildedir: Cezayir (5), Azerbaycan (5), Bangladeş (15), Benin (4), Bosna-Hersek (1), Bulgaristan (1), Çad (1), Çin (4), Fildişi Sahili (1), Etiyopya (3), Gana (4), Macaristan (3), Hindistan (0), Irak (1), İran (11), İtalya (5), Kazakistan (5), Kenya (1), Malezya (4), Moldova (1), Fas (1), Nepal (5), Nijer (3), Nijerya (25), Pakistan (18), Filipinler (1), Polonya (4), Somali (2), İspanya (1), Sri Lanka (7), Sudan (4), Tanzanya (1), Tunus (5), Uganda (2), Ukrayna (1), Amerika Birleşik Devletleri (2), Zimbabve (1) ve Türkiye (138). Uluslararası bildirilerin toplam bildiriler içerisindeki oranı %53,4, Türkiye’den sunulan bildirilerin oranı ise %46,6 olarak gerçekleşmiştir.

Kongrede; hayvansal üretim, bitkisel üretim, su ürünleri yetiştiriciliği, gıda bilimi ve teknolojileri, tarımsal teknolojiler, toprak bilimi, sürdürülebilir tarım sistemleri, tarım ekonomisi, genetik, biyoloji, tarımsal ekoloji, peyzaj mimarlığı ve tarımsal çevre konularının yanı sıra tarım ve doğal yaşamla ilişkili özgün ve ileri teknoloji uygulamaları ele alınmış ve tartışılmıştır.

TARGID 2026’nın organizasyon ve kongre süreçlerinde; Doç. Dr. Burak Şen, Prof. Dr. Cem Baltacıoğlu, Doç. Dr. Hande Baltacıoğlu, Dr. Öğr. Üyesi Mustafa Duman, Dr. Öğr. Üyesi Mutlu Bulut, Dr. Öğr. Üyesi Ali Kaan Yetik, Dr. Öğr. Üyesi Mehmet Yetişen, Ahmet Akyol, Furkan Baş, Muhammet Talha İnce ve Ulrich Sosthène Hodonou kongre sekreteryasında önemli görevler üstlenmişlerdir.

Kongremizin başarıyla gerçekleştirilmesine katkı sağlayan tüm paydaşlarımıza ve bilimsel çalışmalarıyla kongremize katılım göstererek bizleri destekleyen tüm bilim insanlarına teşekkürlerimizi sunarız.

Saygılarımızla





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Yayın Ve Düzenlemede Görevlendirilmiş Akademisyen Temsilci

11–12 Haziran 2026 tarihinde Sinop/Türkiye’de “8. Uluslararası Tarım, Gıda, Çevre ve Biyoloji Kongresi (TARGID 2026)” gerçekleştirilmesinde, Niğde Ömer Halisdemir Üniversitesi Rektörlüğü’nün 04/02/2026-777021 sayısı olurları ile aşağıda isimleri verilen akademisyenlere **yayın ve düzenlemede akademik temsilci** olarak yer almalarına izin verilmiştir.

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Arş. Gör. Ahmet AKYOL
Arş. Gör. Furkan BAŞ
Arş. Gör. Muhammet Talha İNCE





ULUSLAR ARASI KONGRE ÖZELLİKLERİ

1. Ülkelere göre bildiri sayıları

No.	Ülke	Bildiri sayısı
1	Algeria	5
2	Azerbaijan	5
3	Bangladesh	15
4	Benin	4
5	Bosnia and Herzegovina	1
6	Bulgaria	1
7	Chad	1
8	China	4
9	Côte d'Ivoire	1
10	Ethiopia	3
11	Ghana	4
12	Hungary	3
13	Iran	11
14	Iraq	1
15	Italy	5
16	Kazakhstan	5
17	Kenya	1
18	Malaysia	4
19	Moldova	1
20	Morocco	1
21	Nepal	5
22	Niger	3
23	Nigeria	25
24	Pakistan	18
25	Philippines	1
26	Poland	4
27	Sri Lanka	7
28	Somalia	2
29	Spain	1
30	Sudan	4
31	Tanzania	1
32	Tunisia	5
33	Türkiye	138
34	Uganda	2
35	Ukraine	1
36	USA	2
37	Zimbabwe	1





2. Bilim Kurulunda Yer Alan Yabancı Akademisyenler

(Toplam: 11 yabancı akademisyen, 8 farklı ülke)

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3. Yurt dışı katılım oranı

Group	Number of countries	Participation	Percentage
Türkiye	1	138	46.62%
Yurt dışı	36	158	53.38%
Total	37	296	100.00%

Yukarıda verilen bilgiler çerçevesinde, 11-12 Haziran 2026 tarihinde Sinop/Türkiye’de “ 8. Uluslararası Tarım, Gıda, Çevre ve Biyoloji Kongresi (TARGID 2026) ”, uluslararası kongre niteliği taşımakta, akademik teşvik kriterleri ve UAK Doçentlik başvuru koşullarını **sağlamıştır**.





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