



## PREFACE

Dear Colleagues...

The " 4<sup>th</sup> International Congress of the Turkish Journal of Agriculture - Food Science and Technology (TURJAF 2025) " has been held in Niğde/Türkiye on 28-30 April, 2025, 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.

416 papers from 45 countries were presented to our congress. 225 of these papers came from foreign countries and 191 came from Türkiye. The countries of the participants who sent papers to the congress and the number of incoming articles are as follows; Albania (2), Algeria (10), Azerbaijan (1), Bangladesh (34), Benin (2), Burkina Faso (1), Cameroon (1), China (3), Côte d'Ivoire (2), Cyprus (3), Ecuador (2), Egypt (2), England (1), Ethiopia (6), Germany (1), Ghana (5), Hungary (1), India (4), Iran (8), Iraq (3), Italy (7), Kazakhstan (4), Kenya (6), Kirgizistan (1), Kosova (1), Morocco (1), Nepal (4), Netherlands (1), Nigeria (47), Pakistan (26), Peru (1), Philippines (4), Poland (1), Roma (1), Romania (2), Saudi Arabia (2), Somalia (2), Sri Lanka (8), Sudan (6), Tanzania (2), Tunissia (3), Uganda (1), USA (1), Zimbabwe (1) and Türkiye (191). The rate of international papers is 54.08% (more than one paper by the same author was received as one;  $100 \times 225 / (225 + 191) = 54.08\%$ ).

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 phase of the congress; Assoc. Prof. Dr. Burak ŞEN, Dr. Mustafa DUMAN, Dr. Mehmet YETİŞEN, Dr. Brian TAINIKA, Dr. Ali Kaan YETİK, Ahmet AKYOL, Furkan BAŞ, Muhammet Talha İNCE, Musa SÜRÜCÜ, Beyazıt Abdurrahman ŞANLI, Orkun GENCER, Katibe Sinem CORUK, Ayşenur İNCE took on important duties 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.

4<sup>th</sup> International Congress of the Turkish Journal of Agriculture - Food Science and Technology (TURJAF 2025) was supported by TUBITAK within the scope of "2223-B - Grant Program for Organizing Scientific Meeting within the Country".

Kind regards





## ÖNSÖZ

Sayın Meslektaşlarımız...

Tarım ve ilgili bilim dallarında çalışan bilim insanlarının katılımıyla, bilimsel gelişmeleri paylaştıkları, uluslararası sorunlara bilimsel çözümler önermek, iş birliklerini artırarak uluslararası kaynakların ekonomik kullanılmasıyla insanlığın yararına olacak bilimsel çıktıların oluşturulması amacıyla, 28-30 Nisan 2025 tarihinde Niğde/Türkiye’de “4. Uluslararası Türk Tarım - Gıda Bilimi ve Teknolojileri Dergisi Kongresi (TURJAF 2025)” gerçekleştirilmiştir.

Kongremize 40 ülkeden 416 bildiri sunulmuştur. Bu bildirilerin 225’i yurt dışından, 191’si ise Türkiye’den gelmiştir. Kongreye bildiri gönderen katılımcıların ülkeleri ve gelen makale sayıları şu şekildedir; Albania (2), Algeria (10), Azerbaycan (1), Bangladesh (34), Benin (2), Burkina Faso (1), Cameroon (1), China (3), Côte d’Ivoire (2), Cyrus (3), Ecuador (2), Egypt (2), England (1), Ethiopia (6), Germany (1), Ghana (5), Hungary (1), India (4), Iran (8), Iraq (3), Italy (7), Kazakhstan (4), Kenya (6), Kirgizistan (1), Kosova (1), Morocco (1), Nepal (4), Netherlands (1), Nigeria (47), Pakistan (26), Peru (1), Philippines (4), Poland (1), Roma (1), Romania (2), Saudi Arabia (2), Somalia (2), Sri Lanka (8), Sudan (6), Tanzania (2), Tunissia (3), Uganda (1), USA (1), Zimbabwe (1) ve Türkiye (191). Yurtdışı bildiri oranı %55.26’dır (aynı yazara ait birden fazla bildiriler tek olarak alınmıştır;  $(100 \times 225 / (225 + 191)) = 54.08\%$ ).

Kongrede; tarım ve doğal hayat ile ilgili özgün ve ileri teknoloji ile ilgili; hayvansal üretim, bitkisel üretim, su ürünleri, gıda bilimi ve teknolojileri, tarım teknolojileri, toprak bilimi, sürdürülebilir tarım sistemleri, tarım ekonomisi, genetik, biyoloji, tarımsal ekoloji, peyzaj mimarlığı ve tarımsal çevre konuları katılımcılar tarafından tartışılmıştır.

Kongremizin düzenlenmesi ve kongre aşamasında; kongre sekreteryasında önemli görevler üstlenen Doç. Dr. Burak ŞEN, Dr. Mustafa DUMAN, Dr. Mehmet YETİŞEN, Dr. Brian TAINIKA, Dr. Ali Kaan YETİK, Ahmet AKYOL, Furkan BAŞ, Muhammet Talha İNCE, Musa SÜRÜCÜ, Beyazıt Abdurrahman ŞANLI, Orkun GENCER, Katibe Sinem CORUK, Ayşenur İNCE kongre organizasyonunu üstlenmişlerdir.

Kongremizin başarılı bir şekilde gerçekleştirilmesinde desteklerini esirgemeyen tüm paydaşlarımıza ve bildirileri ile katılarak destek veren tüm bilim insanlarına teşekkürü bir borç biliriz.

4. Uluslararası Türk Tarım - Gıda Bilimi ve Teknolojileri Dergisi Kongresi (TURJAF 2025), TÜBİTAK tarafından “2223-B - Yurt İçi Bilimsel Etkinlik Düzenleme Desteği Programı” kapsamında desteklenmiştir.

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### Yayın Ve Düzenlemede Görevlendirilmiş Akademisyen Temsilci

28-30 Nisan 2025 tarihinde Niğde/Türkiye’de “4. Uluslararası Türk Tarım - Gıda Bilimi ve Teknolojileri Dergisi Kongresi (TURJAF 2025)” gerçekleştirilmesinde, Niğde Ömer Halisdemir Üniversitesi Rektörlüğü’nün 13/02/2025 Tarih E-87795264-903.07-621211 sayılı olurları ile aşağıda isimleri verilen akademisyenlere **yayın ve düzenlemede akademik temsilci** olarak yer almalarına izin verilmiştir.

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Assist. Prof. Dr.	Ahmed Shamhi JABBAR	University of Al-Qadisiyah	Iraq



## 2. Yurt dışından katılım sağlanan ülkeler ve bildiri sayıları

SN	Ülke	Bidiri sayısı
1	Albania	2
2	Algeria	10
3	Azerbaijan	1
4	Bangladesh	34
5	Benin	2
6	Burkina Faso	1
7	Cameroon	1
8	China	3
9	Côte d'Ivoire	2
10	Cyprus	3
11	Ecuador	2
12	Egypt	2
13	England	1
14	Ethiopia	6
15	Germany	1
16	Ghana	5
17	Hungary	1
18	India	4
19	Iran	8
20	Iraq	3
21	Italy	7
22	Kazakhstan	4
23	Kenya	6
24	Kirgizistan	1
25	Kosova	1
26	Morocco	1
27	Nepal	4
28	Netherlands	1
29	Nigeria	47
30	Pakistan	26
31	Peru	1
32	Philippines	4
33	Poland	1
34	Roma	1
35	Romania	2
36	Saudi Arabia	2
37	Somalia	2
38	Sri Lanka	8
39	Sudan	6
40	Tanzania	2
41	Tunissia	3
42	Türkiye	191
43	Uganda	1
44	USA	1
45	Zimbabwe	1

## 3. Yurt dışı katılım oranı

Ülke	Bidiri sayısı (birden fazla bildiriyle katılım)
Yurt dışı	225
Yurt içi	191
Oran	54.08

Yukarıda verilen bilgiler çerçevesinde, 28-30 Nisan 2025 tarihinde Niğde/Türkiye’de “ 4. Uluslararası Türk Tarım - Gıda Bilimi ve Teknolojileri Dergisi Kongresi (TURJAF 2025) ”, uluslararası kongre niteliği taşımakta, akademik teşvik kriterleri ve UAK Doçentlik başvuru koşullarını sağlamıştır.





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### Invited presentations

#### **Recent studies and future expectations in broiler breeding in Türkiye**

Musa Sarica, Kadir Erensoy, Beyhan Yeter, Emrah Oğuzhan, Hasan Eleroğlu, Mehmet Akif Boz, Ahmet Şekeroğlu, Ahmet Uçar INV1-INV6

#### **Developments In Layer Breeding**

Ahmet UÇAR, Ahmet Nuri TAŞDEMİR, Mustafa Kemal ÖZER, Ökkeş DİNGİŞ, Veysel Murat YAKUT, Birhan BOYALI INV10-INV10

#### **Digital Agriculture**

Zeynep ÜNAL INV9-INV9

#### **Climate Change and Plant Breeding: Preparing for the Future**

Hümeysra YAMAN INV8-INV8

#### **Turkish Viticulture And Its Status In The World**

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#### **Role of Artificial Intelligence in Increasing Milk Production on Dairy Farms**

Hatice Dilaver, Kamil Fatih Dilaver 1-5

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Akbar Hossain Tusher, Faysal Ahmed Himel, Babor Ahmad, Mostafa Monir, Md. Anowar Hossain, Rakibul Hasan, Shahiduzzaman Selim 14-14

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#### **Knowledge Towards Food-Borne Parasitic Zoonoses and Self-Reported Hygiene Practices of Fish and Meat Vendors in the Public Market of Bay, Laguna**

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