

# TURKISH JOURNAL OF FIELD CROPS

Published by the Society of Field Crop Science

Indexed and Abstracted in: Science Citation Index, WOS Core Collection, (SciSearch)  
Journal Citation Reports/Science Edition. In CABI Abstracts: Crop Physiology Abstr.,  
Field Crops Abstr., Grasslands And Forage Abstr., Plant Breeding Abstr., Seed Abstr.,  
and the ulakbim of the Scientific and Technological Research Council of Turkey.

Volume: 30 Number: 1 2025 ISSN 1301-1111

Number: 1

Volume: 30

TURKISH JOURNAL OF FIELD CROPS

2025

# TURKISH JOURNAL OF FIELD CROPS

Published by the Society of Field Crop Science

Indexed and Abstracted in: Science Citation Index, WOS Core Collection, (SciSearch)  
Journal Citation Reports/Science Edition. In CABI Abstracts: Crop Physiology Abstr.,  
Field Crops Abstr., Grasslands And Forage Abstr., Plant Breeding Abstr., Seed Abstr.,  
and the ulakbim of the Scientific and Technological Research Council of Turkey.

Volume: 30 Number: 1 2025 ISSN 1301-1111

## CONTENTS

Pages

<b>Effect of Slow-Release Nitrogen Fertilizer with NBPT Inhibitor on Popcorn (<i>Zea mays L. everta</i>) Yield and Quality</b> Ayşe Gülgün ÖKTEM, Mahmut Nedim AĞAÇKESEN, Abdullah ÖKTEM.....	1
<b>Identifying Loci Associated with Grain Quality Traits of Landraces and Modern Varieties of Spring Bread Wheat under Conditions of Western Siberia</b> Sergey SHEPELEV, Inna POTOTSKAYA, Alexey MORGOUNOV, Alexandr CHURSIN, Svetlana ESSE, Mikhail KOSHKIN, Vladimir SHAMANIN.....	11
<b>Impact of Growing Conditions and Water Stress on Turmeric</b> Köksal AYDINŞAKIR, Fatma UYSAL BAYAR, Orçun ÇINAR.....	22
<b>Improving of Simple Selection Index to Determine Oat (<i>Avena sativa L.</i>) Genotypes for Dual Purpose Production</b> Tevrican DOKUYUCU, Tuğba BAŞKONUŞ, Ziya DURLUPINAR.....	35
<b>Identification of Morphological Agronomic and Quality Characteristics of Hungarian Vetch (<i>Vicia pannonica</i> Crantz.) Mutants</b> Berna EFE, Sabahaddin ÜNAL, Hacer MINTAŞ, Erdal Eren YELER, Mustafa NALBANT.....	43
<b>Effect of Vermicompost and Biochar of Pruning Waste on Soil Properties and Faba Bean (<i>Vicia faba L.</i>) Yield under Calcareous Soil</b> Mohammad Hossein NAMAKI, Mohammad Hossein ANSARI, Hassan AKHGARI.....	55
<b>Forage Yield of Foxtail Millet (<i>Setaria italica</i> (L.) P. Beauvois) and Its Some Quality and Nutritional Values of Fodder and Silages Obtained from Different Morphological Parts and Silages with Alfalfa (<i>Medicago sativa L.</i>)</b> Gülcan DEMİROĞLU TOPÇU, Sebhattin BOYACI, Hazım Serkan TENİKECİER, Ertan ATEŞ.....	67
<b>Effects of Irrigation Level, Plant Density and Nitrogen Doses on Grain Yield and Yield Parameters of Sweet Sorghum (<i>Sorghum bicolor L. Moench var. saccharatum</i>)</b> Güngör KÖSTERELİ, İlhan TURGUT.....	76
<b>Molecular Marker Aided Selection of Restorer of Fertility (Rf/rf) Alleles to Develop Maintainer Lines in Sunflower</b> Array ZÄILASHEVA, Bahar SANCAR, Mamoudou ZONON, Alparslan KARABENİZ, Vese PAKASHTICA, Songül SEVER MUTLU, Nedim MUTLU.....	88
<b>Performance of Oat under Different Sowing Densities and Nitrogen Levels</b> Tuğçe KARAKUZU, Özge Doğanay ERBAŞ KÖSE.....	98
<b>A Flow Cytometry-Based Assessment of the Nuclear DNA Content and Ploidy Level of Wild Sunflower Species</b> Yalcin KAYA, Gulsemin SAVAS TUNA, Necmi BESER, Metin TUNA.....	110

(continued on back cover)

CONTENTS	Pages
<b>Quality Determination in Confectionery Sunflower</b> Yalcin KAYA, Ufuk BAGCI, Necmi BESER, Emrah AKPINAR.....	121
<b>Effects of Different Seeding Rates on Growth Performance, Yield, and Quality of <i>Calendula officinalis L.</i> in Mediterranean Conditions</b> Gülsüm BOZTAŞ, Emine BAYRAM.....	138
<b>Characterization and Multivariate Assessment of Faba Bean (<i>Vicia faba L.</i>) Varieties Based on Mineral, Agro-Morphological and Technological Characteristics</b> Hamdi OZAKTAN, Oguz EROL.....	151
<b>Grain Yield Stability of Durum Wheat Genotypes: A Graphical Approach</b> Damla BALABAN GÖÇMEN.....	164
<b>Physiological and Agronomic Responses of Peanut (<i>Arachis hypogaea L.</i>) to Melatonin Seed Pretreatment and Gamma-Aminobutyric Acid Foliar Application under Accelerated Aging</b> Nastaran HEYDARI KHOSHKARVANDANI, Mehdi BARADARAN FIROUZABADI, Masoud ESFAHANI, Sanam SAFAEI - CHAEIKAR, Hasan MAKARIAN.....	175
<b>The Study on <i>Calendula officinalis L.</i> in Mediterranean Climatic Conditions: Impact of Different Nitrogen and Phosphorus Fertilization Levels on Morphological, Yield and Physiological Characteristics</b> Gülsüm BOZTAŞ, Emine BAYRAM.....	192
<b>Trait-Based Characterization of Barley Genotypes under Simulated Early Drought Stress Conditions</b> Seleuk KODAZ, Kamil HALILOGLU, Ali OZTURK.....	206
<b>Transferability of Genomic SSR Markers in <i>Lens</i> Species for Genus Characterization and Lentil (<i>Lens culinaris</i> Medik.) Breeding</b> Brian Wakimwayi KOBOYI, Merve KEKLIK, Özge DOĞANAY, Melike BAKIR.....	223
<b>Co-Inoculation of Bradyrhizobium and Arbuscular Mycorrhizal Fungus Alleviates the Effects of Drought Stress in Soybean (<i>Glycine max L.</i>)</b> Mohammad Ali ZIRAK-QOTURBULAGH, Shahram MEHRI, Hossein SOLEIMANZADEH, Mohammad Hossein ANSARI.....	235
<b>The Potato Clones Selected for High and Low Plant Yield in the F<sub>1</sub> Generation of Atlantic × 101 (Nif) Cross</b> Muhammet Anil AYDIN, Gulsum OZTURK, Metin Birkan YILDIRIM.....	249

EDITOR IN CHIEF

Emre ILKER

Ege University Faculty of Agriculture, emre.ilker@ege.edu.tr

DEPUTY EDITOR IN CHIEF

Aliye YILDIRIM KESKINOGLU

Ege University Faculty of Agriculture, aliye.yildirim@gmail.com

HONORARY EDITOR IN CHIEF

Prof. Dr. Metin B. YILDIRIM

Ege University, Faculty of Agriculture, mtn\_yildirim@yahoo.com

EDITORS

*Plant Breeding and Genetics*

Kayıhan Z. Korkut  
M. İlhan Çağırğan  
Orhan Kurt  
Necdet Budak  
İsmet Başer  
Oğuz Bilgin  
Cengiz Toker  
Mehmet Emin Çalışkan  
Emre İlker  
Mehmet Mert  
S. Metin Kara  
Yalcın Kaya  
Fatma Aykut Tonk  
Mehdi Rahimi  
Ravi V. Mural  
Deniz İstipliler  
Alpay Balkan

Namık Kemal University Faculty of Agriculture  
Akdeniz University Faculty of Agriculture  
Ondokuz Mayıs University Faculty of Agriculture  
Ege University Faculty of Agriculture  
Namık Kemal University Faculty of Agriculture  
Namık Kemal University Faculty of Agriculture  
Akdeniz University Faculty of Agriculture  
Nigde University Faculty of Agriculture Sci. and Tech.  
Ege University Faculty of Agriculture  
Mustafa Kemal University Faculty of Agriculture  
Ordu University Faculty of Agriculture  
Trakya University Plant Breeding Center  
Ege University Faculty of Agriculture  
Graduate University of Advanced Techn. Depart. of Biotech.  
Nebraska-Lincoln University  
Ege University, Faculty of Agriculture  
Namık Kemal University, Faculty of Agriculture

kayihankorkut@nku.edu.tr  
cagirgan@akdeniz.edu.tr  
orhank@omu.edu.tr  
necdet.budak@ege.edu.tr  
ibaser@nku.edu.tr  
obilgin@nku.edu.tr  
toker@akdeniz.edu.tr  
caliskanm@nigde.edu.tr  
emre.ilker@ege.edu.tr  
mmert@mku.edu.tr  
smkara58@hotmail.com  
yalcinkaya@trakya.edu.tr  
fatma.aykut@ege.edu.tr  
mehdi83ra@yahoo.com  
rmural2@unl.edu  
deniz.istipliler@ege.edu.tr  
abalkan@nku.edu.tr

*Agronomy*

Emine Bayram  
Osman Erekul  
Özgür Tatar  
Sevgi Çalışkan  
İsa Telci  
Gulsum Ozturk  
Osman Copur  
Sezai Delibacak  
Burhan Kara  
Erdoğan Ozturk  
Sıdika Ekren  
Zafar Hayat Khan  
Mariano Ucchesu  
Hossein Zahedi  
Hüseyin Canci  
Mahmut Tepecik  
Zehra Ekin  
Mehmet Sincik  
Aliye Yıldırım Keskinoglu  
Dilek Basalma  
İhsanullah Daur

Ege University Faculty of Agriculture  
Adnan Menderes University, Faculty of Agriculture  
Ege University Faculty of Agriculture  
Nigde University Faculty of Agriculture Sci. and Tech  
Süleyman Demirel University Faculty of Agriculture  
Ege University, Faculty of Agriculture  
Harran University Faculty of Agriculture  
Ege University, Faculty of Agriculture  
Süleyman Demirel University Faculty of Agriculture  
Atatürk Üniversitesi Faculty of Agriculture  
Ege University, Faculty of Agriculture  
Abdul Wali Khan University, Department of Agriculture  
University of Cagliari, Department of Life and Environ. Sci.  
Islamic Azad University, Department of Agriculture  
Akdeniz University, Faculty of Agriculture  
Ege University, Faculty of Agriculture  
Van Yuzuncu Yil University, Faculty of Agriculture  
Uludag University, Faculty of Agriculture  
Ege University, Faculty of Agriculture  
Ankara University, Faculty of Agriculture  
Peshawar University, Department of Agronomy

emine.bayram@ege.edu.tr  
oerekul@adu.edu.tr  
ozgur.tatar@ege.edu.tr  
sevgaliskan@gmail.com  
isatelci@sdu.edu.tr  
gulsum.ozturk@ege.edu.tr  
ocopur@harran.edu.tr  
sezai.delibacak@ege.edu.tr  
bkara@ziraat.sdu.edu.tr  
erozturk@atauni.edu.tr  
sidika.ekren@ege.edu.tr  
zafarhayat@awkum.edu.pk  
marianoucchesu@gmail.com  
hzahedi2006@gmail.com  
huseyin.canci@akdeniz.edu.tr  
mahmut.tepecik@ege.edu.tr  
zehraekin@yyu.edu.tr  
sincik@uludag.edu.tr  
aliye.yildirim@gmail.com  
basalma@ankara.edu.tr  
idaur@aup.edu.pk

*Forage Crops*

Ali Koc  
Zeki Acar  
Ugur Bilgili  
Hakan Geren  
Behcet Kir  
Emine Budakli Carpici  
Halil Ibrahim Erkovan  
Cengiz Sancak  
Gülcan Demiroglu Topcu  
Mustafa Surmen

Eskisehir Osmangazi University, Faculty of Agriculture  
Ondokuz Mayıs University, Faculty of Agriculture  
Uludag University, Faculty of Agriculture  
Ege University, Faculty of Agriculture  
Ege University, Faculty of Agriculture  
Uludag University, Faculty of Agriculture  
Osmangazi University, Faculty of Agriculture  
Ankara University, Faculty of Agriculture  
Ege University, Faculty of Agriculture  
Adnan Menderes University, Faculty of Agriculture

aliloc@ogu.edu.tr  
zekiacar@omu.edu.tr  
ubilgili@uludag.edu.tr  
hakan.geren@ege.edu.tr  
behcet.kir@ege.edu.tr  
ebudakli@uludag.edu.tr  
erkovan@ogu.edu.tr  
cengiz.sancak@ankara.edu.tr  
gulcan.demiroglu.topcu@ege.edu.tr  
mustafa.surmen@adu.edu.tr

*Biotechnology*

Mehmet Arslan  
Nejdet Kandemir  
Bahattin Tanyolac  
Hakan Özkan  
Ahu Altunkut Uncuoglu  
Mehmet Karaca  
Kenan Turgut  
Duygu Ates  
Kamil Haliloglu

Erciyes University Faculty of Agriculture  
Gaziosmanpaşa University Faculty of Agriculture  
Ege University Faculty of Engineering  
Çukurova University Faculty of Agriculture  
Marmara University Faculty of Engineering  
Akdeniz University, Faculty of Agriculture  
Akdeniz University, Faculty of Agriculture  
Ege University, Faculty of Engineering  
Atatürk University, Faculty of Agriculture

mehmetarslan@erciyes.edu.tr  
kandemir@gop.edu.tr  
bahattin.tanyolac@ege.edu.tr  
hozkan@cu.edu.tr  
ahu.uncuoglu@marmara.edu.tr  
mkaraca@akdeniz.edu.tr  
kturgut@akdeniz.edu.tr  
duygu.ates@ege.edu.tr  
kamilh@atauni.edu.tr

# SOCIETY OF FIELD CROP SCIENCE

848 sok. İkinci Beyler İş Hanı No:72 Kat:3 D.313 35000 Konak/Izmir – TÜRKİYE

## GOVERNING BOARD

President	: Behcet KIR	Ege University Faculty of Agriculture behcet.kir@ege.edu.tr
Vice President	: Aliye YILDIRIM	Ege University Faculty of Agriculture aliyee.yildirim@gmail.com
Secretary	: Ugur CAKALOGULLARI	Ege University Faculty of Agriculture ugur.cakal@hotmail.com
Treasurer	: Emre ILKER	Ege University Faculty of Agriculture emre.ilker@ege.edu.tr
Member	: Gulsum OZTURK	Ege University Faculty of Agriculture gulsum.ozturk@ege.edu.tr

## Aims and Scope

*Turkish Journal of Field Crops* is the official publication of Society of Field Crops Science. It offers the latest developments in research to scientists active in field crops. The Journal includes only the original research papers on the following topics: Breeding and Genetics, Agronomy, Physiology, Forage Crops, Medicinal and Aromatical Plants, Biotechnology and Utilization

## Publication Date

*Turkish Journal of Field Crops* is published twice a year (June and December).

## Indexing and Abstracting

*Turkish Journal of Field Crops* is indexed and abstracted in: Science Citation Index (SciSearch), WOS Core Collection (Clarivate), Journal Citation Reports/Science Edition. In CABI Abstracts: Crops Physiology Abstr., Field Crops Abstr., Grasslands and Forage Abstr., Plant Breeding Abstr., Seed Abstr. and the Ulakbim of the Scientific and Technological Research Council of Turkey.

Owner (Sahibi)	: Behcet KIR, Ege University Faculty of Agriculture, behcet.kir@ege.edu.tr
Editor-in-Chief (Yazı İşleri Müdürü)	: Emre ILKER, emre.ilker@ege.edu.tr
Address (Adres)	: 848 sok. İkinci Beyler İş Hanı No:72 Kat:3 D.313 35000 Konak/Izmir – Türkiye
Web	: <a href="https://www.field-crops.org">https://www.field-crops.org</a>
Email	: <a href="mailto:contact@field-crops.org">contact@field-crops.org</a>
Bank Account (Banka Hesabı)	: Türkiye İis Bankası Yesilova Subesi, Branch code: 3376 Account name: Tarla Bitkileri Bilimi Derneği IBAN for Turkish Liras: TR69 0006 4000 0013 3760 3716 73
Printer (Dizgi ve Baskı)	: OFİS-SER Matbaacılık LTD Gediz Cad. No:12/B, Bornova/Izmir
Tel	: +90 232 311 1428      +90 232 343 3474
Date of Publication (Basım Tarihi)	: June, 2025

## IN APPRECIATION

The Editorial Board of the Turkish Journal of Field Crops would like to express its sincere thanks and appreciations to the referees and reviewers listed below who reviewed and evaluated the manuscripts sent for publication in this issue  
(Volume 30:1, June, 2025)

<i>Ravi Mural</i>	<i>University of Nebraska-Lincoln, USA</i>
<i>Mehdi Rahimi</i>	<i>University of Advanced Technology, Kerman, Iran</i>
<i>Nedim Mutlu</i>	<i>Akdeniz University, Antalya</i>
<i>Uğur Tan</i>	<i>Adnan Menderes University, Aydin</i>
<i>Ali Yiğit</i>	<i>Adnan Menderes University, Aydin</i>
<i>Uğur Çakaloğulları</i>	<i>Ege University, Izmir</i>
<i>Emine Budaklı Çarpıcı</i>	<i>Uludag University, Bursa</i>
<i>Mustafa Sürmen</i>	<i>Adnan Menderes University, Aydin</i>
<i>Şeyda Zorer Çelebi</i>	<i>Van Yüzüncü Yıl University, Van</i>
<i>Süleyman Kızıl</i>	<i>Dicle University, Diyarbakir</i>
<i>İsa Telci</i>	<i>Isparta University of Applied Sciences, Isparta</i>
<i>Olcay Arabacı</i>	<i>Adnan Menderes University, Aydin</i>
<i>Gülcan Demiroğlu Topçu</i>	<i>Ege University, Izmir</i>
<i>Hanife Mut</i>	<i>Bilecik Şeyh Edebali University, Bilecik</i>
<i>Mehmet Arslan</i>	<i>Akdeniz University, Antalya</i>
<i>İlknur Akgün</i>	<i>Isparta University of Applied Sciences, Isparta</i>
<i>Alper Adak</i>	<i>Bati Akdeniz Agricultural Research Institute, Antalya</i>
<i>Hakan Ulukan</i>	<i>Ankara University, Ankara</i>
<i>Onur Hocaoglu</i>	<i>Canakkale Onsekiz Mart University, Canakkale</i>
<i>İsmet Başer</i>	<i>Namik Kemal University, Tekirdag</i>
<i>Cuma Akıncı</i>	<i>Dicle University, Diyarbakir</i>
<i>Yalcin Kaya</i>	<i>Trakya University, Edirne</i>
<i>Fatma Aykut Tonk</i>	<i>Ege University, Izmir</i>
<i>Feride Öncan Sümer</i>	<i>Adnan Menderes University, Aydin</i>
<i>Hüseyin Çancı</i>	<i>Akdeniz University, Antalya</i>
<i>Erdal Elkoca</i>	<i>Ataturk University, Erzurum</i>
<i>Ziya Dumlupınar</i>	<i>Kahramanmaraş Sütçü Imam University, Kahramanmaras</i>
<i>Alpay Balkan</i>	<i>Namik Kemal University, Tekirdag</i>
<i>Hakan Geren</i>	<i>Ege University, Izmir</i>
<i>Mehmet Öten</i>	<i>Sakarya University of Applied Sciences, Sakarya</i>
<i>Hakan Kır</i>	<i>Ahi Evran University, Kirsehir</i>
<i>Ali Ramazan Alan</i>	<i>Pamukkale University, Denizli</i>
<i>Abdurrahim Tanju Göksoy</i>	<i>Uludag University, Bursa</i>
<i>Saeed Rauf</i>	<i>University of Sargodha</i>
<i>Mevlüt Akçura</i>	<i>Canakkale Onsekiz Mart University, Canakkale</i>
<i>Mehmet Ali Sakin</i>	<i>Tokat Gaziosmanpasa University, Tokat</i>
<i>Yüksel Kaya</i>	<i>Siirt University, Siirt</i>
<i>Cenk Burak Şahin</i>	<i>Hatay Mustafa Kemal University, Hatay</i>
<i>Güray Akdoğan</i>	<i>Ankara University, Ankara</i>
<i>Şebnem Kuşvuran</i>	<i>Çankiri Karatekin University, Çankiri</i>
<i>Mehmet Sincik</i>	<i>Uludag University, Bursa</i>
<i>Öner Yeşilkaya</i>	<i>Polenseed Company</i>
<i>Özgür Tatar</i>	<i>Ege University, Izmir</i>
<i>Sabri Erbaş</i>	<i>Isparta University of Applied Sciences, Isparta</i>
<i>Fatih Kahrıman</i>	<i>Canakkale Onsekiz Mart University, Canakkale</i>
<i>İbrahim Çelik</i>	<i>Pamukkale University, Denizli</i>
<i>Emine Atalay</i>	<i>Selçuk University, Konya</i>
<i>Emre İlhan</i>	<i>Erzurum Technical Universtiy, Erzurum</i>
<i>Mahmut Tepecik</i>	<i>Ege University, Izmir</i>
<i>Hatice Bozoğlu</i>	<i>Ondokuz Mayıs University, Samsun</i>
<i>İlhan Çağırğan</i>	<i>Akdeniz University, Antalya</i>
<i>Şevket Metin Kara</i>	<i>Ordu University, Ordu</i>
<i>Erdoğan Öztürk</i>	<i>Ataturk University, Erzurum</i>

# INSTRUCTIONS FOR AUTHORS

## PLAGIARISM SCREENING

Papers submitted to our Journal are screened for plagiarism before being sent for review. If there appears to be major repetition from other sources, the editor will evaluate the duplication and take appropriate action as warranted.

## MANUSCRIPT LAYOUT

Manuscript should be written in Microsoft Word, DIN-A4 pages, letter «Times New Roman» size 12, with 1.5 line spacing, 2 cm margins on each side, page and line numbers.

Word editor should be used to create tables, for tables each item should be placed into a separate cell. Dimensions of tables must be maximum 16 × 20 cm and minimum 8 cm wide. Tables are to be numbered with Arabic numerals in the order in which they are referred to in the text and have a brief, but self-explanatory title. Abbreviations or symbols used in the tables must be explained either in the table title or as a footnote.

Figures should be submitted in TIFF or JPG format and dimensions of figures must be maximum 16 × 20 cm and minimum 8 cm wide. All photos, graphs, illustrations and diagrams should be referred to as a figure and numbered, continually according to the order in which they are included in the text.

If any abbreviations are used in a paper, they shall be explained appropriately when they are used in the text for the first time. It is not advisable to use any abbreviations in the paper title or in the abstract. Then use the abbreviation throughout the entire article. The SI international system of measurement units should be used. Genus and species are always italicized. Do not italicize "spp." or "sensu stricto" or "sensu lato" that may follow genus and species.

## TITLE

The title should be short and clear and usually cover less than two printed lines. It should not include chemical formulas or arbitrary abbreviations. The list of authors and their affiliations, including city, state, country and the corresponding author's email address should be provided in this section, marked with an asterisk for identification.

## ABSTRACT

The abstract should be a single paragraph of 250 words or less. It should be specific, telling why and how the study was made, what the results were, and why they were important. In the abstract, the objectives, methods, results, and conclusions should be clearly articulated using concise sentences. Keywords (a maximum of 6 in alphabetical order) should differ from words mentioned in the title.

The main text of scientific paper must be developed under the following headings: Introduction, Materials and Methods, Results and Discussion. Results and Discussion can be presented under one or separate heading.

## INTRODUCTION

Introduction should outline the main reasons why the research was conducted; describe a brief review of literature consisting of refereed periodicals, journals and books, and the goal of the authors. It is recommended to include references to papers from reviewed or peer reviewed periodicals only.

## MATERIALS AND METHODS

All materials, experiments conducted, their extent, conditions and course should be described in detail in this section. All original procedures used for processing experimental material and all analytical methods used for evaluation should also be detailed. Data verifying the quality of acquired data should be indicated for the used methods. Methods of statistical processing, including the software used should also be listed in this section. Mathematical formulas should be written using the Equation tool. Company names should not be included in commercial materials such as equipment, chemicals, and varieties used.

## RESULTS AND DISCUSSION

It should be a single section as "Results and Discussion" or if necessary, can be split into separate "Results" and "Discussion" sections. Discussion should be logical and results must be discussed in the light of previous literature justifying your findings.

## ACKNOWLEDGMENTS

Please list any acknowledgments here.

## CONFLICT OF INTEREST

Please include a conflict of interest statement. If there is no conflict, a default statement "The authors declare no conflict of interest" is acceptable.

## CITATIONS

Citations of relevant published work in the text, from Introduction to Discussion, including tables and figures, should read Demir & Yuce (1987) or (Demir & Yuce, 1987). When a paper cited has three or more authors, use the style Chung et al. (1989) or (Chung et al., 1989). Use (Park, 1983a) and (Park, 1983b) when citing more than one paper by the same author(s) published in the same year. For example, "This is observed both in vivo and in vitro (Gordon et al., 1980; Lee, 1989a, 1989b; Smith & Jones, 1984)."

## REFERENCES

Please do not use Turkish letter in References. Only published papers or papers in press can be mentioned in the manuscript. Papers in preparation or in review can be mentioned within the text as unpublished data, but should not be included in the References section. References should be listed alphabetically at the end of the text without numbering. The manuscript should be checked carefully to ensure that the spellings of the authors' names and year of publication are exactly the same in the text as in the reference list. Turkish Journal of Field Crops follows the APA style for citations and references. The author-year system for citations is required; do not use numbered references. If there is a doi for the cited article, it must be given in the reference list. References to journal articles, books, proceedings, chapters in books, etc. should be listed as given below (please note the punctuation and capitalisation):

### Journal articles:

Cui, P., Li, Y., Cui, C., Huo, Y., Lu, G., & Yang, H. (2020). Proteomic and metabolic profile analysis of low-temperature storage responses in *Ipomoea batata* Lam. tuberous roots. *BMC Plant Biology*, 20, 435. <https://doi.org/10.1186/s12870-020-02642-7>

Reddy, V. R. (1995). Modeling ethephon-temperature interactions in cotton. *Computers and Electronics in Agriculture*, 13, 27–35. [https://doi.org/10.1016/0168-1699\(95\)00012-S](https://doi.org/10.1016/0168-1699(95)00012-S)

Grady, J. S., Her, M., Moreno, G., Perez, C., & Yelinek, J. (2019). Emotions in storybooks: A comparison of storybooks that represent ethnic and racial groups in the United States. *Psychology of Popular Media Culture*, 8(3), 207–217. <https://doi.org/10.1037/ppm0000185>

**Congress paper:** Khan, M., Quade, A., & Murray, D. (2006). Mirid damage assessment in Bollgard II—Critical damage stage and action thresholds at different stages in irrigated and rain-grown cotton. In *Proceeding of the 13th Australian Cotton Conference* (pp. 543–554). Australian Cotton Growers Research Association.

**Books:** Steel, R. G. D., & Torrie, J. H. (1980). *Principles and Procedures of Statistics: A Biometrical Approach*. 2. ed. New York: McGraw-Hill Publ. Company.

**Chapter in Books:** Knight, K., Grundy, P., Kauter, G., & Ceeney, S. (2021). Twenty years of successful Bt cotton production in Australia. In G. T. Gujar, Y.A. Trisyono, & M. Chen (Eds.), *Genetically modified crops in Asiapacific* (pp. 53–74). CSIRO Publishing.

**Online References:** Holsinger, K. (2008). The genetics of natural selections. <http://darwin.eeb.uconn.edu/eeb348/lecture-notes/selection/selection.html>, (Accessed January 20, 2010)

### Publication Contribution

The author should make a contribution of USD 250 to share the publication costs. The Open Access publication model allows all interested readers to freely view, download, print, and redistribute articles without requiring a subscription. This enables far broader dissemination of an author's work. Through Open Access, both the scientific community and the general public can access all published content immediately and at no cost once it becomes available online. However, open access publishing is not possible without expenses. Since we do not rely on online subscriptions, we cover editorial and production costs by collecting a manuscript handling fee from authors who wish to publish their articles under the Open Access model. The publication fee and payment information are stated on our website (<https://www.field-crops.org/>).

The printing charges may kindly be sent to bank account of Society of Field Crop Science.

Bank Name & Address: Türkiye İş Bankası, Yeşilova Subesi, İzmir-TÜRKİYE

Account name: Tarla Bitkileri Bilimi Derneği

IBAN: TR69 0006 4000 0013 3760 3716 73

For US dollar payments, bank account information is sent via email.

## PUBLICATION POLICY

This publication policy statement outlines policy and procedures relative to the Turkish Journal of Field Crops.

### 1. General Policy

All material intended for publication by the Society should be written in English. Manuscripts for the Journal should be sent to the Editor in Chief.

### 2. Editor-in-Chief

The Editor in Chief makes recommendations to the Governing Board for the appointment of the editors and serves as a Chairman of the Editorial Board.

### 3. Editorial Board

Editorial Board, consisting of the Editor-in-Chief and Editors, prepares the Journal. Editorial Board develops procedures for manuscript submission, review and referee criteria, acceptance, release and publication. The Editor in Chief delegates editorial functions to other members of the Editorial Board. The Editor in Chief also processes review and interpretive papers and handles the appeal procedure for rejected manuscripts. The Editor-in-Chief may write editorials or solicit manuscripts on special topics.

### 4. Editor

Editors are appointed for specific subject matter areas and are responsible for the technical and intellectual content of the journal in these areas. They supervise the registering of manuscripts and other record-keeping activities and direct the work of the assigned referees and Editors in reviewing and evaluating manuscripts submitted to the Turkish Journal of Field Crops.

Editors are responsible for obtaining a minimum of two reviews for each manuscript assigned to them. Each review is an evaluation of the intellectual content of the manuscript for publication. The following steps will be followed for prompt reviews.

a. Editors are expected to act as primary reviewer for papers close to their area of expertise.

b. Editors are encouraged to contact prospective reviewers and request a return of the reviewed paper within two weeks.

c. Editors are advised to read papers carefully before sending them out for review. Editor is encouraged to be one of the primary reviewers. The goal is to have two quality reviews of the manuscript.

### 5. Manuscript Handling

Three copies of manuscripts should be submitted to the receipt of the Editor in Chief. The Editor notifies the corresponding author of the receipt of the manuscript, sends permission to print and reprint the form to the author, and assigns the registration number to the manuscripts. The registration number must be used in all correspondence regarding the manuscript. The Editor in Chief assigns manuscripts to the Editors on the basis of subject matter. The Editors, in turn, assign manuscripts to the referees and reviewers.

If they recommend publication without change and the Editor agrees, the manuscript and reviewers report are sent to the Editor in Chief for concurrence.

### 6. Referee Assignment by the Editor-in-Chief

The editor-in-chief could also assign manuscripts to the editors and two referees. If two referees accept, the manuscript is accepted for publication after the Editor approves it.

If the reviewers and the Editor find the manuscript could be published after some revision, the manuscript is returned to the author to obtain a satisfactory revision. If the author does not return a revised manuscript, the first released manuscript must be submitted to the editor for additional consideration by the journal.

If the reviewers and Editor recommend rejection, the manuscript and reviewers' comments are sent to the Editor in Chief. If the Editor in Chief concurs that the manuscript should be rejected, the manuscript is released to the author. The author of a manuscript rejected has the option of appealing the release to the Editor in Chief. In appealing the release, the author must provide the Editor in Chief with a clean copy of the released version of the manuscript. All editorial correspondence and a letter are stating the reasons why the author is appealing the release.

### 7. Notes

Short papers covering experimental techniques, apparatus and observations of unique phenomena are published as notes. Review procedures for notes are the same as those for regular articles. The format for notes with less than two printed pages is less formal than that for full-length articles.

### 8. Letters to the Editor

The journal publishes Letters to the Editor. Letters may contain comments on articles appearing in the Turkish Journal of Field Crops or general discussion about crop science research and are limited to two printed pages. If a letter discusses a published paper, the author of that paper may submit a response to the comments. The Editor-in-Chief must approve published papers and may receive a peer review.