

Prof. MUSA İLHAN ÇAĞIRGAN

Personal Information

Office Phone: [+90 242 310 2488](tel:+902423102488)

Office Phone: [+90 242 227 4400](tel:+902422274400) Extension: 2488

Fax Phone: [+90 242 227 4564](tel:+902422274564)

Email: cagirgan@akdeniz.edu.tr

Web: <https://avesis.akdeniz.edu.tr/cagirgan>

Education Information

Doctorate, Ege University, Faculty Of Agriculture, Tarla Bitkileri, Turkey 1985 - 1989

Postgraduate, Ege University, Faculty Of Agriculture, Tarla Bitkileri, Turkey 1983 - 1985

Undergraduate, Ege University, Faculty Of Agriculture, Tarla Bitkileri, Turkey 1979 - 1983

Foreign Languages

English, B2 Upper Intermediate

German, B1 Intermediate

Research Areas

Agricultural Sciences, Agriculture, Infield Plants, Cereal Grains (wheat, oats, rye, corn, barley, millets, rice,etc.), Cool Climate Cereals, Other Crops Grown for Industrial Processing (perfume-producing plants, for medicine, etc.), Oil Plants, Legumes, Other Forage Crops, Biotechnology and Genetics, Population Genetics

Academic Titles / Tasks

Professor, Akdeniz University, Faculty of Agriculture, Tarla Bitkileri, 1997 - Continues

Associate Professor, Akdeniz University, Faculty of Agriculture, Tarla Bitkileri, 1991 - 1997

Assistant Professor, Akdeniz University, Faculty of Agriculture, Tarla Bitkileri, 1989 - 1991

Research Assistant, Sivas Cumhuriyet University, Ziraat Fakültesi, Tarla Bitkileri, 1984 - 1989

Academic and Administrative Experience

Akdeniz University, Faculty of Agriculture, Tarla Bitkileri, 1995 - 1997

Akdeniz University, Faculty of Agriculture, Tarla Bitkileri, 1995 - 1997

Advising Theses

ÇAĞIRGAN M. İ., Kapalı kapsüllü susam mutantlarının fertilité düzeylerinin karşılaştırılması, Postgraduate, Ş.İNAL(Student), 2011

- ÇAĞIRGAN M. İ., Susamda Kapalı Kapsüllülük Mutant Karakterine Bağlı Moleküler Markerlerin Belirlenmesi, Doctorate, B.Uzun(Student), 2000
- ÇAĞIRGAN M. İ., Nohutta (*cicer arietinum* L.) yapay mutasyon spektrumu ve frekansı üzerinde arařtırmalar, Doctorate, C.TOKER(Student), 1997
- ÇAĞIRGAN M. İ., Kompozit arpa populasyonlarının tarımsal özellikler bakımından deęerlendirilmesi üzerinde arařtırmalar, Postgraduate, C.TOKER(Student), 1993

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Identification and characterization of a phytoplasma disease of jute (*Corchorus olitorius* L.) from south-western Turkey**
ÖZDEMİR Z., ÇAĞIRGAN M. İ.
CROP PROTECTION, vol.74, pp.1-8, 2015 (SCI-Expanded)
- II. **FIRST REPORT ON THE OCCURRENCE AND SYMPTOMATOLOGY OF PHYLLODY DISEASE IN JUTE (*Corchorus olitorius* L.) AND ITS PLANT CHARACTERISTICS IN TURKEY**
ÇAĞIRGAN M. İ., Topuz H., Mbaye N., SİLME R. S.
TURKISH JOURNAL OF FIELD CROPS, vol.19, no.1, pp.129-135, 2014 (SCI-Expanded)
- III. **THE IMPACT OF CLIMATE VARIABILITY ON OCCURRENCE OF SESAME PHYLLODY AND SYMPTOMATOLOGY OF THE DISEASE IN A MEDITERRANEAN ENVIRONMENT**
ÇAĞIRGAN M. İ., Mbaye N., SİLME R. S., Ouedraogo N., Topuz H.
TURKISH JOURNAL OF FIELD CROPS, vol.18, no.1, pp.101-108, 2013 (SCI-Expanded)
- IV. **DETERMINATION OF ENDOGENOUS HORMONE LEVELS IN ASCOCHYTA BLIGHT [*Ascochyta rabiei* (Pass.) Labr.] SUSCEPTIBLE AND RESISTANT CHICKPEAS (*Cicer arietinum* L.)**
ÇAĞIRGAN M. İ., TOKER C., ÜLGER S., KARHAN M.
TURKISH JOURNAL OF FIELD CROPS, vol.17, no.1, pp.5-9, 2012 (SCI-Expanded)
- V. **SELECTED PROPERTIES OF SESAME AS A FUNCTION OF VARIETIES AND MOISTURE CONTENTS**
Yılmaz D., AKINCI İ., ÇAĞIRGAN M. İ.
INTERNATIONAL JOURNAL OF FOOD PROPERTIES, vol.15, no.1-2, pp.81-88, 2012 (SCI-Expanded)
- VI. **INHERITANCE OF LEAF SHAPE IN THE CULTIVATED CHICKPEA (*Cicer arietinum* L.)**
TOKER C., Ceylan F. O., İnci N. E., YILDIRIM T., ÇAĞIRGAN M. İ.
TURKISH JOURNAL OF FIELD CROPS, vol.17, no.1, pp.16-18, 2012 (SCI-Expanded)
- VII. **ASSESSMENT OF ENDOGENOUS ORGANIC ACID LEVELS IN ASCOCHYTA BLIGHT [*Ascochyta rabiei* (Pass.) Labr.] SUSCEPTIBLE AND RESISTANT CHICKPEAS (*Cicer arietinum* L.)**
ÇAĞIRGAN M. İ., TOKER C., KARHAN M., Aksu M., ÜLGER S., Çancı H.
TURKISH JOURNAL OF FIELD CROPS, vol.16, no.2, pp.121-124, 2011 (SCI-Expanded)
- VIII. **SCREENING FOR RESISTANCE TO FUSARIUM WILT IN INDUCED MUTANTS AND WORLD COLLECTION OF SESAME UNDER INTENSIVE MANAGEMENT**
Silme R. S., ÇAĞIRGAN M. İ.
TURKISH JOURNAL OF FIELD CROPS, vol.15, no.1, pp.89-93, 2010 (SCI-Expanded)
- IX. **GAMMA RAYS-INDUCED MUTANT SPECTRUM AND FREQUENCY IN SESAME**
Diouf M., Boureima S., Diop T., ÇAĞIRGAN M. İ.
TURKISH JOURNAL OF FIELD CROPS, vol.15, no.1, pp.99-105, 2010 (SCI-Expanded)
- X. **Effect of moisture content and stalk section on some engineering parameters of closed capsule sesame stalks (*Sesamum indicum* L.)**
Yılmaz D., Kabař Ö., AKINCI İ., Özmerzi A., ÇAĞIRGAN M. İ.
JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT, vol.7, no.3-4, pp.306-311, 2009 (SCI-Expanded)
- XI. **Identification of molecular markers linked to determinate growth habit in sesame**
Uzun B., ÇAĞIRGAN M. İ.
EUPHYTICA, vol.166, no.3, pp.379-384, 2009 (SCI-Expanded)
- XII. **Strength and Deformation Parameters of Sesame Stalk in Relation to Harvest**

- Yılmaz D., Kabaş Ö., Akinci I., ÇAĞIRGAN M. İ.
PHILIPPINE AGRICULTURAL SCIENTIST, vol.92, no.1, pp.85-91, 2009 (SCI-Expanded)
- XIII. **AGRONOMIC AND QUALITY CHARACTERIZATION OF OATS GENOTYPES SELECTED FOR WINTER TOLERANCE**
ÖZBAŞ M., İNAN A., ÇAĞIRGAN M. İ.
TURKISH JOURNAL OF FIELD CROPS, vol.14, no.2, pp.150-158, 2009 (SCI-Expanded)
- XIV. **CERTAIN ION ACCUMULATIONS IN BARLEY MUTANTS EXPOSED TO DROUGHT AND SALINITY**
TOKER C., Gorham J., ÇAĞIRGAN M. İ.
TURKISH JOURNAL OF FIELD CROPS, vol.14, no.2, pp.162-169, 2009 (SCI-Expanded)
- XV. **RADIOSENSITIVITY OF AFRICAN SESAME CULTIVARS TO GAMMA-RAYS**
Boureima S., Diouf M., Silme R. S., Diop T., Vandamme P., ÇAĞIRGAN M. İ.
TURKISH JOURNAL OF FIELD CROPS, vol.14, no.2, pp.181-190, 2009 (SCI-Expanded)
- XVI. **CHLOROPHYL MUTATION-LIKE CHIMERIC CASES INDUCED BY FAST-NEUTRONS IN M1 GENERATION OF A DURUM WHEAT**
Cagirgan M. İ.
TURKISH JOURNAL OF FIELD CROPS, vol.14, no.2, pp.159-161, 2009 (SCI-Expanded)
- XVII. **Agronomic trait assessment and selection for number of capsules in determinate x indeterminate crosses of sesame**
ÇAĞIRGAN M. İ., Özerden S., ÖZBAŞ M.
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.33, no.3, pp.231-241, 2009 (SCI-Expanded)
- XVIII. **Selection and morphological characterization of induced determinate mutants in sesame**
Cagirgan M. İ.
FIELD CROPS RESEARCH, vol.96, no.1, pp.19-24, 2006 (SCI-Expanded)
- XIX. **Comparison of determinate and indeterminate lines of sesame for agronomic traits**
Uzun B., CAGIRGAN M. İ.
FIELD CROPS RESEARCH, vol.96, no.1, pp.13-18, 2006 (SCI-Expanded)
- XX. **Endogenous hormone variations in annual wild Cicer species**
Toker C., Ulger S., Cagirgan M. İ.
GENETIC RESOURCES AND CROP EVOLUTION, vol.53, no.1, pp.171-177, 2006 (SCI-Expanded)
- XXI. **Genotypic variability for carbon isotope discrimination in the mutant and improved lines of barley**
Cagirgan M. İ., Özbaş M., Heng L., Afza R.
ISOTOPES IN ENVIRONMENTAL AND HEALTH STUDIES, vol.41, no.3, pp.229-235, 2005 (SCI-Expanded)
- XXII. **Comparison of some endogenous hormone levels in different parts of chickpea (Cicer arietinum L.)**
Toker C., Ulger S., Karhan M., Çancı H., Akdeşir Ö., Ertoy N., Cagirgan M. İ.
GENETIC RESOURCES AND CROP EVOLUTION, vol.52, no.3, pp.233-237, 2005 (SCI-Expanded)
- XXIII. **Heterozis for Agronomic Traits in Sesame Hybrids of Cultivars X Closed Capsule Mutants.**
UZUN B., Özbaş M. O., ÇANCI H., ÇAĞIRGAN M. İ.
ACTA AGRICULTURAE SCANDINAVICA SECTION B-SOIL AND PLANT SCIENCE, no.54, pp.108-112, 2004 (SCI-Expanded)
- XXIV. **Heterosis for agronomic traits in sesame hybrids of cultivars x closed capsule mutants**
Uzun B., OZBAS M., CANCI H., CAGIRGAN M. İ.
ACTA AGRICULTURAE SCANDINAVICA SECTION B-SOIL AND PLANT SCIENCE, vol.54, no.2, pp.108-112, 2004 (SCI-Expanded)
- XXV. **The use of phenotypic correlations and factor analysis in determining characters for grain yield selection in chickpea (Cicer arietinum L.)**
Toker C., Cagirgan M. İ.
HEREDITAS, vol.140, no.3, pp.226-228, 2004 (SCI-Expanded)
- XXVI. **Selection criteria in chickpea (Cicer arietinum L.)**
Toker C., Cagirgan M. İ.
ACTA AGRICULTURAE SCANDINAVICA SECTION B-SOIL AND PLANT SCIENCE, vol.53, no.1, pp.42-45, 2003 (SCI-Expanded)

- XXVII. **Identification of a molecular marker linked to the closed capsule mutant trait in sesame using AFLP**
Uzun B., LEE D., DONINI P., CAGIRGAN M. İ.
PLANT BREEDING, vol.122, no.1, pp.95-97, 2003 (SCI-Expanded)
- XXVIII. **Assessment of response to drought and salinity stresses of barley (*Hordeum vulgare* L.) mutants**
Toker C., Gorham J., Cagirgan M. İ.
CEREAL RESEARCH COMMUNICATIONS, vol.27, no.4, pp.411-418, 1999 (SCI-Expanded)
- XXIX. **Registration of M-Q-54, a fast-germinating ABA-insensitive mutant of 'Quantum' barley**
Cagirgan M. İ., Visser K., TOKER C., Wang M., Yildirim M. B., Tugay M. E., Heidekamp F.
CROP SCIENCE, vol.38, no.5, pp.1410, 1998 (SCI-Expanded)
- XXX. **Rapid germination of a barley mutant is correlated with a rapid turnover of abscisic acid outside the embryo**
Visser K., Vissers A., Cagirgan M. İ., Kijne J., Wang M.
PLANT PHYSIOLOGY, vol.111, no.4, pp.1127-1133, 1996 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effect of some threshing parameters on sesame separation**
YILMAZ D., AKINCI İ., ÇAĞIRGAN M. İ.
Agricultural Engineering International: the CIGR Ejournal, vol.X/59, pp.1, 2008 (Peer-Reviewed Journal)
- II. **Pigeonpea [*Cajanus cajan* (L.) Millsp.], A New Food Legume For Turkey.**
TOKER C., ÇANCI H., ÇAĞIRGAN M. İ.
TURKISH JOURNAL OF FIELD CROPS, no.1, pp.1-10, 2004 (Peer-Reviewed Journal)
- III. **Preliminary Screening for Nodulation in Chickpea Mutants**
ÇANCI H., TOKER C., ÇAĞIRGAN M. İ.
International Chickpea and Pigeonpea Newsletter, no.11, pp.13-14, 2004 (Peer-Reviewed Journal)
- IV. **Genotypic Variations for Root and Shoot Growth at Seedling Stage in Chickpea Mutants**
ÇANCI H., ÇAĞIRGAN M. İ., TOKER C.
International Chickpea and Pigeonpea Newsletter, no.11, pp.11-13, 2004 (Peer-Reviewed Journal)
- V. **Selection for Resistance to Ascochyta Blight (*Ascochyta fabae* Speg. f.sp. *fabae* Gossen et al.) in Faba Bean (*Vicia faba* L.) Populations and Assessment of Cold Tolerance and Yield Criteria**
TOKER C., ÇANCI H., ÇAĞIRGAN M. İ.
TURKISH JOURNAL OF FIELD CROPS, no.9, pp.78-86, 2004 (Peer-Reviewed Journal)
- VI. **Adaptation of Pigeonpea in the Mediterranean Coast of Turkey**
TOKER C., ÇANCI H., ÇAĞIRGAN M. İ.
International Chickpea and Pigeonpea Newsletter, no.11, pp.45-46, 2004 (Peer-Reviewed Journal)
- VII. **Comparison of determinate and indeterminate types of sesame for oil content and fatty acids**
ÜLGER S., Uzun b., çağirgan m. i.
Turkish Journal of Agriculture and Forestry, vol.26, no.5, pp.269-274, 2002 (Scopus)
- VIII. **Evaluation for Agronomic, Morphologic and Phenologic Characters of Mung Bean [*Vigna radiata* (L.) Wilczek] Genotypes in the Lowland of the West Mediterranean Region of Turkey.**
TOKER C., ÇANCI H., Haq M. A., ÇAĞIRGAN M. İ.
TURKISH JOURNAL OF FIELD CROPS, no.7, pp.78-85, 2002 (Peer-Reviewed Journal)
- IX. **Tek Mideli Hayvanlarda Arpa β -Glukan İçeriğinin Beslenme Değerine Etkisi ve Analizi.**
ÇAKMAKÇI S., UZUN B., ÇAĞIRGAN M. İ.
Akd. Üniv. Zir. Fak. Derg., vol.9, no.1, pp.138-151, 1996 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Outcrossing percentage of genetic male-steriles of "Baronesse" barley in a mediterranean**

environment

ÇAĞIRGAN M. İ., ADAK A., Başkaya Demir N., Topuz H.

12th International Barley Genetics Symposium - 2016, Minnesota, United States Of America, 26 - 30 June 2016

- II. **Induced mutagenesis in a F1 genetic background of pepper to select mutants suitable for sustainable agriculture**
ADAK A., ÇAĞIRGAN M. İ.
2nd International Conference on Sustainable Agriculture and Environment (2nd ICSAE), Konya, Turkey, 30 September - 03 October 2015, pp.327-328
- III. **Mixture performance of the barley genotypes at West Mediterranean Region of Turkey**
TEKİN M., ÇAĞIRGAN M. İ.
2nd International Conference on Sustainable Agriculture and Environment (2nd ICSAE), Konya, Turkey, 30 September - 03 October 2015, pp.326
- IV. **Pattern of Yield Related-Trait Interrelationships in F1 and F2 in Barley**
ÇAĞIRGAN M. İ., ÖZBAŞ M. O., SİLME R. S., TEKİN M., ADAK A.
International Conference On science, Ecology and Technology, Viyana, Austria, 25 - 28 August 2015, pp.11-12
- V. **Patterns of yield related-traits interrelationships in F1 and F2 in barley**
ÇAĞIRGAN M. İ., Özbaş M. O., Silme R., TEKİN M., ADAK A.
International Conference on Science, Ecology and Technology I (ICONSETE), Viyana, Austria, 25 - 28 August 2015
- VI. **Genetic diversity of phytoplasmas causing sesame phyllody and transmission studies with natural vector *Orosius orientalis* in South-western Turkey**
Özdemir Z., Toprak S., ADAK A., ÇAĞIRGAN M. İ.
18th International Plant Protection Congress, Berlin, Germany, 24 - 27 August 2015
- VII. **Participatory agricultural research for sustainable community empowerment: Akdeniz University's experience**
ÇAĞIRGAN M. İ., ÖZBAŞ M. O., TEKİN M., ADAK A., Balcı H.
The International Conference on Research for Social Devotion, Khon Kaen, Thailand, 22 - 23 January 2015, pp.277-278
- VIII. **Participatory agricultural research for sustainable community empowerment: Akdeniz University's experience**
ÇAĞIRGAN M. İ., Özbaş M. O., TEKİN M., ADAK A., Balcı H.
The International Conference on Research for Social Devotion, Khon Kaen, Thailand, 22 - 23 January 2015, pp.277-278
- IX. **Enhancing education of farmers for sustainable agriculture through participation**
ÇAĞIRGAN M. İ., Başkaya N., ADAK A., Toprak S., TEKİN M.
The 6th International Conference on Science, Technology and Innovation for Sustainable Well-Being (STISWB VI), Siem Reap, Cambodia, 28 - 30 August 2014
- X. **Enhancing education of farmers for sustainable agriculture through participation**
ÇAĞIRGAN M. İ., Başkaya N., ADAK A., Toprak S., TEKİN M.
The 6th International Conference on Science, Technology and Innovation for Sustainable Well-Being (STISWB VI), Siem Reap, Cambodia, 28 - 30 August 2014
- XI. **A note on the combined use of statistical methods to study trait interrelationships in plant breeding**
ÇAĞIRGAN M. İ., ÖZBAŞ M. O., Topuz H., ADAK A., TEKİN M.
International Conference on Applied Statistics 2014, Khon Kaen, Thailand, 21 - 24 May 2014, pp.237-238
- XII. **Use of factor analysis to compare agronomic trait interrelationships in determinate and indeterminate types of sesame**
ÇAĞIRGAN M. İ., Özerden S., TEKİN M., Özbaş M. O.
International Conference on Applied Statistics 2014, Khon Kaen, Thailand, 21 - 24 May 2014, pp.147
- XIII. **A note on the combined use of statistical methods to study trait interrelationships in plant breeding**
ÇAĞIRGAN M. İ., Özbaş M. O., Topuz H., ADAK A., TEKİN M.
International Conference on Applied Statistics 2014, Khon Kaen, Thailand, 21 - 24 May 2014, pp.237
- XIV. **Antalya İli susam alanlarından toplanan *Orosius orientalis* (Matsumura) (Homoptera):**

Scadellidae)'lerde 'Candidatus Phytoplasma australasia'nın tespiti

Özdemir Z., Topuz H., ERLER F., ÇAĞIRGAN M. İ.

Türkiye V. Bitki Koruma Kongresi, Antalya, Turkey, 3 - 05 February 2014, pp.191

XV. Bazı Hint Bezelyesi [*Cajanus cajan* (L.) Millsp.] Genotiplerinin Batı Akdeniz Bölgesi Sahil Koşullarına Adaptasyonu

ÇANCI H., TOKER C., ÇAĞIRGAN M. İ.

Türkiye 5. Tarla Bitkileri Kongresi, Diyarbakır, Turkey, 13 - 17 October 2003, vol.1, pp.549-552

XVI. Batı Akdeniz Bölgesi Sahil Koşulları İçin Alternatif Bir Baklagil, *Vigna radiata* (L.) Wilczek

ÇANCI H., TOKER C., ÇAĞIRGAN M. İ.

GAP II. Tarım Kongresi, Şanlıurfa, Turkey, 24 - 26 October 2001, vol.2, pp.1001-1006

XVII. Yabani Nohut Türlerinin Cansız Stres Faktörleri İçin Gözlem ve Seleksiyonu

TOKER C., ÇANCI H., ÇAĞIRGAN M. İ.

Türkiye 4. Tarla Bitkileri Kongresi, Tekirdağ, Turkey, 17 - 21 September 2001, pp.315-320

XVIII. Batı Akdeniz Bölgesi'nde Tarla Bitkileri Tarımı

YÜCE S., TURGUT İ., ÇAĞIRGAN M. İ., ÇAKMAKÇI S., BAYDAR H., BİLGEN M.

Batı Akdeniz Bölgesi I. Tarım Kongresi, Antalya, Turkey, 4 - 06 May 1992, vol.1, pp.88-92

XIX. Batı Akdeniz Bölgesi'nde Tarla Bitkileri Tarımı

YÜCE S., TURGUT İ., ÇAĞIRGAN M. İ., ÇAKMAKÇI S., BAYDAR H., BİLGEN M.

Batı Akdeniz Bölgesi I. Tarım Kongresi, Antalya, Turkey, 4 - 06 May 1992, vol.1, pp.88-92

Supported Projects

ÇAĞIRGAN M. İ., Other International Funding Programs, Pyrimiding water use efficiency as determinate by carbon isotope discrimination with other drought tolerance related traits using male sterile facilitated recurrent selection in barley, 2004 - 2009

ÇAĞIRGAN M. İ., Other International Funding Programs, Development of Recombinant Inbreds and Molecular Characterization of Sesame Mutants Suited for Intensive Management, 1998 - 1999

ÇAĞIRGAN M. İ., TUBITAK Project, Kışık yetiştirmeye uygun nohut (*cicer arietinum* L.) mutant ve çeşitlerinin seleksiyonu, 1995 - 1998

ÇAĞIRGAN M. İ., Other International Funding Programs, Mutation Breeding of Sesame (*Sesamum indicum* L.) for Intensive Management, 1994 - 1998

Activities in Scientific Journals

International Journal of Applied Agricultural Research, Publication Committee Member, 2004 - Continues

Turkish Journal of Field Crops, Editor, 2000 - Continues

Scientific Consultations

United Nations, Scientific Consultancy, Akdeniz University, Faculty of Agriculture, Tarla Bitkileri, Turkey, 2009 - 2009

Metrics

Publication: 58

Citation (WoS): 293

Citation (Scopus): 367

H-Index (WoS): 10

H-Index (Scopus): 11

Awards

AĞIRGAN M. İ., Kck Tohumlu Islah Nrserileri İin izi Aıcı, 2. Ar-Ge ve Teknoloji Gnleri (AreGE 2), November 2012

AĞIRGAN M. İ., 1997 Yılı TBİTAK "Hsamettin Tuęa Vakfı Arařtırma dl" İkinilik, TBİTAK, January 1997