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By Kimik, R., Inik, H. A., **Unluoglu, A.**  
SCIENTIA HORTICULTURAE Volume 256 Article Number 106603 Published OCT 15 2019

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# Genetic Diversity in Apple Accessions Belong to Different Species Collected from Natural Populations of Tianshan Mountains, South-West Kyrgyzstan

Aydin Uzun<sup>1</sup> · Kubanichbek Turgunbaev<sup>2</sup> · Abdykerim Abdullaev<sup>3</sup> · Hasan Pınar<sup>1</sup> · Serif Ozongun<sup>4</sup> · Aidai Muratbekkızı<sup>3</sup> · Mederbek Badyrov<sup>2</sup> · Ali İrfan İlbaz<sup>5</sup> · Kahraman Gürçan<sup>6</sup> · Suat Kaymak<sup>7</sup>

Received: 16 January 2018 / Accepted: 13 May 2019  
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## Abstract

There isn't any concrete consensus about the origin of domesticated apple. However, it is generally thought that the origin of this apple primarily comes from *M. sieversii*, also known as Central Asia wild apple. The second significant contribution is thought to be supplied by *M. sylvestris*. Central Asia is an important origin region for apples. Within this region, mountainous and forestlands of Kyrgyzstan constitute a significant source for wild apple species. The present study was conducted to put forth the genetic relationships between 65 accessions belonging to *M. kirgishorum*, *M. domestica*, *M. niedzwetzkyana*, and *M. sieversii* apple species collected from different regions of Kyrgyzstan and 12 accessions belonging to *M. baccata*, *M. prunifolia*, *M. sylvestris* and *M. domestica* species collected from different regions of Turkey. A combination of ISSR and SRAP markers were used in this study. About 71.1% polymorphism was obtained with ISSR primers and 83.5% with SRAP primers. Similarity level of accessions studied was found between 0.74 and 0.95. All materials used in this study were genetically separated from each other. The apple accessions used in this study were generally placed in a mixed fashion with the other materials in the dendrogram. Apart from some exceptions, standard apple accessions of *M. domestica* species taken from Kyrgyzstan and Turkey were grouped separately from standard apple cultivars. While the genotypes of wild species were mostly placed in the other group of the dendrogram, small number of genotypes of *M. domestica* species was placed in this group. Present outcomes revealed significant information for the preservation, assessment and breeding of wild apple species of Kyrgyzstan.

**Keywords** Central Asia · Endangered species · Genetic resources · *Malus* spp · *Malus niedzwetzkyana*

## Genetische Diversität von Apfel-Akzessionen innerhalb verschiedener Arten, die in Wildbeständen des Tianshan-Gebirges im Südwesten Kirgisistans erfasst wurden

**Schlüsselwörter** Zentralasien · Gefährdete Spezies · Genetische Ressourcen · *Malus* spp · *Malus niedzwetzkyana*

✉ Aydin Uzun  
uzun38s@yahoo.com

<sup>1</sup> Department of Horticulture, Erciyes University, Melikgazi, Kayseri, Turkey

<sup>2</sup> Forestry Department and Fruit Crops, Kyrgyz National Agrarian University, Bishkek, Kyrgyzstan

<sup>3</sup> Faculty of Agriculture, Kyrgyzstan-Turkey Manas University, Bishkek, Kyrgyzstan

<sup>4</sup> Fruit Research Institute, Egirdir, Isparta, Turkey

<sup>5</sup> Department of Field Crops, Erciyes University, Melikgazi, Kayseri, Turkey

<sup>6</sup> Department of Agricultural Biotechnology, Erciyes University, Melikgazi, Kayseri, Turkey

<sup>7</sup> General Directorate of Agricultural Research And Policies, Ankara, Turkey

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1. **Supplementary irrigations at different physiological growth stages of chickpea (*Cicer arietinum* L.) change grain nutritional composition**

By: Varol, Ihsan Serkan; Kardes, Yusuf Murat; Irik, Hasan Ali; et al.  
FOOD CHEMISTRY Volume: 303 Article Number: UNSP 125402 Published: JAN 15 2020

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2. **Potential use of crop water stress index (CWSI) in irrigation scheduling of drip-irrigated seed pumpkin plants with different irrigation levels**

By: Kimak, H.; Irik, H. A.; Unlukara, A.  
SCIENTIA HORTICULTURAE Volume: 256 Article Number: 108608 Published: OCT 15 2019

3. **Impact Factor**  
**1.961 2.315**  
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JCR® Category	Rank in Category	Quartile in Category
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4. **Publisher**  
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# Genetic Diversity in Apple Accessions Belong to Different Species Collected from Natural Populations of Tianshan Mountains, South-West Kyrgyzstan

Aydin Uzun<sup>1</sup> · Kubanichbek Turgunbaev<sup>2</sup> · Abdykerim Abdullaev<sup>3</sup> · Hasan Pınar<sup>1</sup> · Serif Ozongun<sup>4</sup> · Aidai Muratbekkızı<sup>3</sup> · Mederbek Badyrov<sup>2</sup> · Ali İrfan Ilbas<sup>5</sup> · Kahraman Gürcan<sup>6</sup> · Suat Kaymak<sup>7</sup>

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<sup>2</sup> Forestry Department and Fruit Crops, Kyrgyz National Agrarian University, Bishkek, Kyrgyzstan

<sup>3</sup> Faculty of Agriculture, Kyrgyzstan-Turkey Manas University, Bishkek, Kyrgyzstan

<sup>4</sup> Fruit Research Institute, Egirdir, Isparta, Turkey

<sup>5</sup> Department of Field Crops, Erciyes University, Melikgazi, Kayseri, Turkey

<sup>6</sup> Department of Agricultural Biotechnology, Erciyes University, Melikgazi, Kayseri, Turkey

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1. Molecular and biological assessment reveals sources of resistance to Plum pox virus - Turkey strain in Turkish apricot (Prunus armeniaca) germplasm

By: Gurcan, Kahraman; Cetinsag, Necati; Pinar, Hasan; et al. SCIENTIA HORTICULTURAE Volume: 252 Pages: 348-353 Published: JUN 27 2019

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2. Further investigation of a genetically divergent group of plum pox virus-M strain in Turkey

By: Gurcan, Kahraman; Teber, Saffet; Caglayan, Kadriye JOURNAL OF PLANT PATHOLOGY Volume: 101 Issue: 2 Pages: 385-391 Published: MAY 2019

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3. Genetic diversity and molecular epidemiology of the T strain of Plum pox virus

By: Teber, S.; Ceylan, A.; Gurcan, K.; et al.

PLANT PATHOLOGY

4. Impact Factor 2.493 2.563 2018 5 year

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
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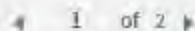
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By: Gurcan, Kahraman; Cetinsag, Necati; Pinar, Hasan; et al.

SCIENTIA HORTICULTURAE Volume: 252 Pages: 348-353 Published: JUN 27 2019

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- 2.

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**1.961** **2.315**

2018 5 year

- 3.

JCR <sup>®</sup> Category	Rank in Category	Quartile in Category
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JOURNAL OF MICROBIOLOGICAL METHODS Volume: 163 Article Number: 105659 Published: AUG 2019

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2. **Phytic acid content and starch properties of maize (Zea mays L.): Effects of irrigation process and nitrogen fertilizer**

By: Kaplan, Mahmut; Karaman, Kevser; Kardes, Yusuf Murat; et al.  
FOOD CHEMISTRY Volume: 283 Pages: 375-380 Published: JUN 15 2019

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### FOOD CHEMISTRY

#### Impact Factor

**5.399** **5.488**  
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JCR <sup>®</sup> Category	Rank in Category	Quartile in Category
CHEMISTRY, APPLIED	5 of 71	Q1
FOOD SCIENCE & TECHNOLOGY	7 of 135	Q1
NUTRITION & DIETETICS	10 of 87	Q1

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3. **Bitter melon (Momordica**

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4. **Production of whole**

Times Cited: 3  
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5. **of coriander seed**

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**ISSN:** 0308-8146  
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1. **Development of New SSR (Simple Sequence Repeat) Markers for Lentils (*Lens culinaris* Medik.) from Genomic Library Enriched with AG and AC Microsatellites**

By: Bakir, Melike; Kahraman, Abdullah  
 BIOCHEMICAL GENETICS Volume: 57 Issue: 2 Pages: 338-353 Published: APR 2019

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2. **Spring late frost resistance of selected wild apricot genotypes (*Prunus armeniaca* L.) from Cappadocia region, Turkey**

By: Dumanoglu, Hatice; Erdogan, Veli; Kesik, Ali; et al.  
 SCIENTIA HORTICULTURAE Volume: 246 Pages: 347-353 Published: FEB 27 2019

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3. **SSR markers in *Pisum***

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**Research Domain**  
 Agriculture

Times Cited: 1  
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5. **SSR markers in *Pisum***

Times Cited: 6  
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- 1. **Determination of histological, immunohistochemical and biochemical effects of acute and chronic grayanotoxin III administration in different doses in rats**  
By: Doganyigit, Zueleyha; Silici, Sibel; Demirtas, Abdullah; et al.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH Volume: 26 Issue: 2 Pages: 1323-1335 Published: JAN

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH

- 2. **Impact Factor**  
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- 4. **Research Domain**  
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## Water deficit and nitrogen affects yield and feed value sudangrass silage

By: Kaplan, M (Kaplan, M.)<sup>[1]</sup>; Kara, K (Kara, K.)<sup>[2]</sup>; Unlukara, A (Unlukara, A.)<sup>[3]</sup>; Kale, H (Kale, H.)<sup>[4]</sup>; Beyzi, SB (Beyzi, S. Buyukkilic)<sup>[5]</sup>; Varol, IS (Varol, I. S.)<sup>[3]</sup>; Kizilsimsek, M (Kizilsimsek, M.)<sup>[6]</sup>; Kamalak, A (Kamalak, A.)<sup>[7]</sup>

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### AGRICULTURAL WATER MANAGEMENT

Volume: 218 Pages: 30-36

DOI: 10.1016/j.agwat.2019.03.021

Published: JUN 1 2019

Document Type: Article

### AGRICULTURAL WATER MANAGEMENT

#### Impact Factor

**3.542** **3.834**

2018 5 year

JCR® Category	Rank In Category	Quartile In Category
AGRONOMY	9 of 89	Q1
WATER RESOURCES	12 of 91	Q1

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ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS

ISSN: 0378-3774

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#### Research Domain

Agriculture

Water Resources

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is on yield components of sorghum sudangrass and sorghum sudangrass silage. Plants were grown under er from field capacity) and three different nitrogen doses (N-ots design for two years in 2013 and 2014. Harvested plants d on silage samples. Irrigation treatments increased green matter and crude ash and decreased crude protein, gas f ratio, crude protein ratio and green herbage yield and d organic matter digestibility values were obtained from 200 were observed with increasing irrigation levels. Appropriate nificant differences between N-3 x 1-00 and N-2 x 1-75 ecommended for sorghum sudangrass culture without any

entation; Gas-methane production

UTRITIVE-VALUE; METHANE PRODUCTION; MATURITY

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<input type="checkbox"/> 1. <b>Prevalence of Arcobacter Species in Drinking Water, Spring Water, and Raw Milk as Determined by Multiplex PCR</b> By: Ertas, Nurhan; Dogruer, Yusuf; Gonulalan, Zafer; et al. JOURNAL OF FOOD PROTECTION Volume: 73 Issue: 11 Pages: 2099-2102 Published: NOV 2010	4	5	2	1	0	35	3.50
<input type="checkbox"/> 2. <b>FEED VALUE OF MAIZE (Zea mays var. indentata (Sturtev.) LH Bailey) GRAIN UNDER DIFFERENT IRRIGATION LEVELS AND NITROGEN DOSES</b> By: Kale, Hasan; Kaplan, Mahmut; Ulger, Ismail; et al. TURKISH JOURNAL OF FIELD CROPS Volume: 23 Issue: 1 Pages: 56-61 Published: 2018	0	0	0	0	1	1	0.50
<input type="checkbox"/> 3. <b>Comparison of the chemical composition and anti-methanogenic potential of Liquidambar orientalis leaves with Laurus nobilis and Eucalyptus globulus leaves using an in vitro gas production technique</b> By: Ulger, Ismail; Kamalak, Adem; Kurt, Ozer; et al. CIENCIA E INVESTIGACION AGRARIA Volume: 44 Issue: 1 Pages: 75-82 Published: JAN-APR 2017	0	0	1	0	0	1	0.33
<input type="checkbox"/> 4. <b>Variations in Potential Nutritive Value, Gas and Methane Production of Local Sainfoin (Onobrychis sativa) Populations</b> By: Ulger, Ismail; Kaplan, Mahmut ALINTERI JOURNAL OF AGRICULTURE SCIENCES Volume: 31 Issue: 2 Pages: 42-47 Published: 2016	0	0	1	0	0	1	0.25
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<input type="checkbox"/> 6. <b>EFFECT OF MATURITY STAGES ON POTENTIAL NUTRITIVE VALUE OF ERCIYES MILK VETCH (ASTRAGALUS ARGAEUS) HAY</b> By: Ulger, Ismail; Kaplan, Mahmut; Atasagun, Bayram; et al. FRESENIUS ENVIRONMENTAL BULLETIN Volume: 28 Issue: 7 Pages: 5117-5121 Published: 2019	0	0	0	0	0	0	0.00
<input type="checkbox"/> 7. <b>Nutritional composition of potato (Solanum tuberosum L.) Haulms</b> By: Kaplan, Mahmut; Ulger, Ismail; Kokten, Kagan; et al. PROGRESS IN NUTRITION Volume: 20 Supplement: 1 Pages: 90-95 Published: JUL 2018	0	0	0	0	0	0	0.00
<input type="checkbox"/> 8. <b>Effects of Different Quality Roughage Supply on Performance of Holstein Calves during Prewearing Period</b> By: Ulger, Ismail; Kaliber, Mahmut; Buyukkilic Beyzi, Selma; et al. TARIM BILIMLERI DERGISI-JOURNAL OF AGRICULTURAL SCIENCES Volume: 23 Issue: 4 Pages: 386-394 Published: 2017.	0	0	0	0	0	0	0.00



# Shape Discrimination of Almond Cultivars by Elliptic Fourier Descriptors

Bünyamin Demir<sup>1</sup> · Bahadır Sayinci<sup>2</sup> · Necati Çetin<sup>3</sup> · Mehmet Yaman<sup>4</sup> · Ruçhan Çömlek<sup>2</sup>

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## Abstract

Knowledge is required about shape and size features of almonds before the design of machines, equipment and systems used in harvest and postharvest processes such as classifying, drying, packaging, grading, transportation and quality assessments of almonds. Such attributes are also required for assessing consumer preferences, cultivar registration, security of plant variety rights, investigating heritability and analyzing shape abnormalities. In present study, seven almond cultivars ('Bertina', 'Ferragnes', 'Ferradual', 'Ferrostar', 'Glorieta', 'Lauranne' and 'Marta') grown in Turkey were used in order to determine the longitudinal, surface and gravitational features and to compare their shapes with elliptic Fourier descriptors. 'Bertina', 'Glorieta' and 'Ferragnes' had the greatest longitudinal, surface and gravitational averages. 'Marta' cultivars had the lowest averages in all parameters except for mass, thickness and projected area in suture orientation. Among the almond cultivars, 'Lauranne' and 'Ferrostar' had the lowest mass and thickness averages. Sphericity averages varied between 60.6–71.6% with the greatest value in 'Ferradual' cultivar. Among the cultivars again, 'Ferrostar' had the greatest elongation, roundness and aspect ratio averages. In terms of the nut shape, elliptic Fourier descriptors revealed that the greatest difference was observed in width dimension in horizontal orientation and thickness dimension in suture orientation. MANOVA results revealed that almond cultivars were significantly different from each other in terms of the nut shape. The results of the Bonferroni pairwise comparison test revealed that all almond cultivars was different in shape.

**Keywords** Almond features · *Amygdalus communis* L. · Elliptic Fourier · Physical properties · Shape analysis

## Unterscheidung der Fruchtform von verschiedenen Mandelsorten mit Hilfe von elliptischen Fourier-Deskriptoren

**Schlüsselwörter** Merkmale der Mandel · *Amygdalus communis* L. · Elliptische Fourier-Transformation · Physikalische Eigenschaften · Formanalyse

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## Abbreviations

M	mass, g
V	volume, mm <sup>3</sup>
PA <sub>H</sub>	projected area at horizontal orientation, mm <sup>2</sup>
PA <sub>S</sub>	projected area at suture orientation, mm <sup>2</sup>
SA	surface area, mm <sup>2</sup>
D <sub>g</sub>	geometric mean diameter, mm
L	length, mm
W	width, mm
T	thickness, mm
P	perimeter, mm
φ	sphericity, %
SI	shape index
AR <sub>H</sub>	aspect ratio at horizontal orientation
AR <sub>S</sub>	aspect ratio at suture orientation

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<input type="checkbox"/> 2. <b>Expression dynamics of Toll-like receptors mRNA and cytokines in porcine peripheral blood mononuclear cells stimulated by bacterial lipopolysaccharide</b> By: Uddin, Muhammad Jasim; Nuro-Gyina, Patrick Kwadwo; Islam, Mohammad Anif; et al. VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY Volume: 147 Issue: 3-4 Pages: 211-222 Published: JUN 30 2012	6	4	2	1	0	27	3.38
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<input type="checkbox"/> 8. <b>Expression patterns of porcine Toll-like receptors family set of genes (TLR1-10) in gut-associated lymphoid tissues alter with age</b> By: Uddin, Muhammad Jasim; Kaewmala, Kanokwan; Tesfaye, Dawit; et al.	3	3	3	3	0	19	2.71

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## Comparative transcriptome sequencing to determine genes related to the nucellar embryo mechanism in citrus

Özhan ŞİMŞEK<sup>1\*</sup>, Dicle DÖNMEZ<sup>2</sup>, Sinan ETİ<sup>1</sup>, Turgut YEŞİLOĞLU<sup>1</sup>, Yıldız AKA KAÇAR<sup>1</sup>

<sup>1</sup>Department of Horticulture, Faculty of Agriculture, Çukurova University, Adana, Turkey

<sup>2</sup>Biotechnology Research and Application Center, Çukurova University, Adana, Turkey

Received: 04.06.2018

Accepted/Published Online: 14.10.2018

Final Version: 06.02.2019

**Abstract:** Several citrus varieties produce apomictic seeds by the nucellar embryo (NE) mechanism. Nucellar embryos are created from nucellus tissue and have an identical genetic constitution to the mother plant. Nucellar embryo is known to be an unusual feature of seed production in many citrus cultivars. The term “NE” refers to the development of identical embryos from the maternal tissue known as the nucellus surrounding the embryo sac. The authors aimed here to detect differentially expressed genes involved in the NE mechanism. Orlando tangelo (OT), producing apomictic seeds, and a clementine mandarin, Algerian tangerine ranch selection (AT), known as monoembryonic, were used for high-throughput transcriptome sequencing. First of all, histological analysis was used to determine the initial stage of the development of NE cells. Initial NE cells began to develop on the third day after anthesis. Based on the histological analysis, ovules of flower buds for OT were sampled at the balloon stage and 1, 3, and 5 days after anthesis; for AT only ovules of flower buds at the balloon stage and 3 days after anthesis were sampled for comparative transcriptome sequencing. Primary sequencings, known as “raw reads”, were produced using Illumina HiSeq 2000. The raw reads were then filtered into clean reads aligned to the reference sequences. The full genome of *Citrus clementina* was used as the reference genome. Deep analyses based on gene expression and differentially expressed genes (DEGs), including gene ontology (GO) enrichment analysis, were performed. A total of 2359 DEGs (1996 upregulated, 363 downregulated) and 2123 genes (1372 upregulated, 751 downregulated) were identified from the samples at the OT balloon stage, OT third day after anthesis and AT third day after anthesis, and OT third day after anthesis, respectively. These findings provide helpful information regarding citrus transcriptome changes for the NE mechanism and could help with the future identification and functional analysis of genes that are significant for polyembryony.

**Key words:** Apomixis, gene, RNA-seq, somatic embryogenesis

### 1. Introduction

Citrus is an important fruit group with immense economical value and significant nutritional resources for human health. There are many major cultivated citrus species, including *Citrus sinensis* (sweet orange), *C. reticulata* (tangerine and mandarin), *C. limon* (lemon), *C. grandis* (pummelo), and *C. paradisi* (grapefruit). Many citrus members reproduce apomictically by nucellar embryo (NE). In NE, typical in citrus and mango, somatic embryos initiate directly from nucellus or integument cells in the ovule. The offspring derived from nucellar embryo in citrus possess the same genetic constitution as the female parent. The phenomenon of NE hinders the formation of hybrid offspring and the progress of crossbreeding. However, it greatly benefits the production of offspring for true-to-type rootstock with good unity and yields virus-free seedlings. Therefore, investigating the mechanism of NE in citrus will provide deeper insight into the processes

controlling apomictic reproduction and facilitate the transfer of apomixis into other crops (Zhang et al., 2018). The extra identical embryos from the nucellus tissue give rise to polyembryonic seeds. “Polyembryony” is a term closely related to NE and refers to the development of two or more embryos in one seed (Zhang et al., 2018). Apomixis mechanisms are divided into two categories, gametophytic and sporophytic, based on whether the embryo develops via a gametophyte (embryo sac) or directly from diploid somatic (sporophytic) cells within the ovule (Hand and Koltunow, 2014). NE is considered to be a significant trait in citrus rootstocks because it provides a low-technology, low-cost method for propagation of genetically identical citrus rootstock (Kepiro and Roose, 2007). However, the true power and/or features of citrus species are not passed to individuals as a result of hybridization due to NE by citrus breeders. For researchers conducting citrus breeding studies this situation can lead to quite severe losses of

\* Correspondence: ozhan12@gmail.com



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## Changes in fatty acid and mineral composition of rapeseed (*Brassica napus* ssp. *oleifera* L.) with seed sizes

By: Beyzi, E (Beyzi, Emine) [1]; Guner, Y (Guner, Aydin) [1]; S. B. (S. B. S. B.); Buyukozturk, F. (Buyukozturk, Fatma Yusuf) [1]

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### Abstract

The present study was conducted to determine the mineral composition and heavy metal contents of oil divided into four size groups (D1: <1.75, D2: 1.75-2.5, D3: 2.5-3.5, D4: >3.5 mm) using ICP/OES devices. Oil contents of the samples were identified. The C18:1 (n-7) fatty acid, was the major fatty acid, C18:3 n3 (linolenic acid) and C18:1 (n-7) fatty acid contents between 2.00 and 2.5029, 0.0303 and 0.0304, respectively. Macro-micro nutrients and heavy metal contents of oil composition, D4 group generally had higher Ca, Mg, K, P, Zn, Cu, Fe, Mn, Ni, Pb, Cd, Cr, Co, Ni, and Cu contents. However, Cd and Pb heavy metal contents were less than that D2 group could be recommended for high polyunsaturated fatty acids (SFA) and high D4 group fatty acid (FA) content.

### Keywords

Author Keywords: Fatty acid composition; Mineral composition; Rapeseed; Seed sizes

KeyWords Plus: GENO... PROTEIN... MET...

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## Effects of rootstocks on storage performance of Nova mandarins

Ahmet Erhan ÖZDEMİR<sup>1\*</sup>, Öznur DİDİN<sup>1</sup>, Elif ÇANDIR<sup>1</sup>, Mustafa KAPLANKIRAN<sup>1</sup>, Ercan YILDIZ<sup>2</sup>

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**Abstract:** In this research, the effects of rootstocks on the storage performance of Nova mandarins grafted on Carrizo citrange, Troyer citrange, or sour orange grown in the ecological conditions of Dörtöyl were studied. Fruits were harvested at optimum maturity and kept at 4 °C and 6 °C for 120 days. Changes in weight loss, incidence of fungal decay and physiological disorders, juice content, total soluble solids (TSS), percent fruit with green button, titratable acidity (TA), juice pH, vitamin C content, and rind color (L\*, C\*, h°) were monitored at 15-day intervals during storage to determine the effects of rootstock on postharvest quality of Nova mandarins. The fruit of Nova mandarin grafted on sour orange and Carrizo citrange had higher weight loss than Troyer citrange. Weight loss from Nova mandarins kept at 4 °C and 6 °C reached 7.71% and 12.21%, respectively, after 120 days of storage. Juice pH, incidence of fungal decay, and physiological disorders increased, while juice content, TA, vitamin C content, percent fruit with green button, and L\*, C\*, and h° values of rind color decreased in the Nova mandarin cultivar during cold storage. According to the data, the fruits of Nova mandarin grafted on Carrizo citrange, Troyer citrange, or sour orange were stored better at 4 °C than 6 °C. Fruit could be kept at 4 °C for 75 days and at 6 °C for 45 days without any quality deterioration.

**Key words:** Carrizo, mandarin, rootstock, sour orange, storage, Troyer

### 1. Introduction

Citrus is a major horticultural crop and commodity worldwide. Citrus species are some of the most important fruit groups for Turkey in terms of production and export quantity. The success of citrus production depends on the availability of suitable rootstocks. In the past, many growers planted sour orange rootstock in Mediterranean regions, including Turkey. However, this rootstock is very sensitive to the tristeza virus (Demirkeser et al., 2009; Kurt et al., 2014); thus, there is a need to evaluate other rootstocks. Kaplankiran et al. (2001) and Demirkeser et al. (2011) suggested the use of Carrizo citrange as rootstock for citrus, except for lemons, in the Aegean and Eastern Mediterranean regions.

Mandarins are becoming increasingly popular among consumers, largely due to easier peeling than other citrus (Obenland et al., 2011). The excellent quality and characteristic flavor of mandarin cultivars are highly prized by some, and if seedless varieties of a larger size can be developed, their popularity will greatly increase (Demirkeser et al., 2009). Although they are preferred by consumers, the recommended storage life under optimum conditions is only 2–4 weeks, less than half

that of conventional oranges (Kader and Arpaia, 2002). Tangerines usually have a short postharvest life and could undergo physiological disorders such as chilling injury when stored at low temperatures, with consequent reduction of quality and flavor (D'Aquino et al., 1997). A previous study showed that fruits from Nova mandarin grafted on sour orange could be stored for 60 days at 4 °C and 85%–90% relative humidity (Özdemir et al., 2008). Literature regarding production techniques, appropriate rootstocks, and postharvest fruit characteristics is still scarce.

Temperature management is the most important environmental factor used to maintain quality of fresh horticultural produce after harvest. Low temperatures reduce respiration and water loss, pathogen growth, and decay incidence (Kader, 2002).

The latest trend in the citrus industry is to extend the period in which the markets are supplied with citrus fruit, particularly oranges and mandarins (Demirkeser et al., 2009). Therefore, cold storage performance of Nova mandarins grafted on sour orange, Carrizo, or Troyer citrange grown in the ecological conditions of Dörtöyl was evaluated in this study.

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# Molecular and biological assessment reveals sources of resistance to *Plum pox virus* - Turkey strain in Turkish apricot (*Prunus armeniaca*) germplasm

Kahraman Gürcan<sup>a,d,\*</sup>, Necati Çetinsığ<sup>a,d</sup>, Hasan Pınar<sup>b</sup>, Tahir Macit<sup>c</sup>

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<sup>b</sup> Erciyes University, Department of Horticulture, Kayseri, 38039, Turkey

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## ARTICLE INFO

### Keywords:

Sharka  
Stone fruit  
Disease resistance  
Marker-Assisted selection

## ABSTRACT

*Plum pox virus* (PPV) is an important threat to apricot (*Prunus armeniaca*) production globally, including in Turkey and Iran, the world's leading producers of dried apricots. Although most apricot cultivars are susceptible and host resistance is the most promising approach to managing the disease. A few cultivars carrying the resistance locus *PPVres* have been used in breeding programs. Additional sources of resistance are highly desirable. The PPV susceptibility of cultivars in the Irano-Caucasian eco-geographical group, considered a secondary center of apricot diversity, has been little studied. We surveyed the response of 227 apricot accessions to PPV strain 'Turkey' (PPV-T) and, in parallel, scored molecular markers linked to *PPVres*. Four accessions ('Cebir', 'Lifos', 'Karum', and 'Zard') were identified as resistant to PPV-T and carried molecular markers for *PPVres*. Two additional accessions ('Kaniş', and Italian Cultivar 'Fracasso') were resistant but did not carry any of the *PPVres* resistance markers, indicating possible new sources of resistance. Their novelty was also supported by previously published molecular diversity analyses. The new resistance sources will be particularly useful for breeding new cultivars of apricot for drying. The marker ZP002 is more reliable and easy to use in selecting for the resistance allele at the *PPVres* locus. PPV resistance in apricot is not likely strain-specific.

## 1. Introduction

The apricot (*Prunus armeniaca* L.) is grown worldwide in temperate regions. Cultivars in the Iran-Caucasian eco-geographical group are grown in Turkey and Iran and account for an important part of world apricot production (955,000 and 460,000 t, respectively) (FAO Production Yearbook, 2016). Other important apricot producers are Uzbekistan (365,000 t), Algeria (269,308 t), Italy (247,246 t), Pakistan (192,500 t), France (189,911 t), Morocco (122,405 t) and Spain (119,400 t) (FAO Production Yearbook, 2016). Plum pox virus (PPV), which is also called sharka, is responsible for the most economically important viral disease of apricot and other stone fruits, including peach (*Prunus persica*), plum (*Prunus domestica* and *Prunus salicina*), sour cherry (*Prunus cerasus*) and sweet cherry (*Prunus avium*) (Candresse and Cambra, 2006). The disease reduces fruit yield and quality, making the fruits unmarketable. After infection, virus control has been very difficult in stone fruit-producing regions. Three strains of PPV are prevalent in Central and Eastern Europe [Marcus (M), Dideron (D) and Recombinant (Rec)] (García et al., 2014), of which the first two have been

used to assess the reaction of stone fruit cultivars (Martinez-Gomez et al., 2000; Dondini et al., 2011; Decroocq et al., 2014, 2016; Zuriaga et al., 2018). Recent surveys revealed high genetic diversity at the DNA sequence level among PPV isolates in Turkey (Gürcan and Ceylan, 2016, 2017; Gürcan et al., 2018; Teber et al., 2019). Although PPV-D, -M and -Rec have been reported in Turkey, PPV-T is the most common strain (Gürcan and Ceylan, 2016). PPV-T harbors a recombination event in the HC-Pro gene at nucleotide position 1566 in the genome (Serçe et al., 2009; Teber et al., 2019)


Host genetic resistance is an important means of combating PPV. In spite of many years of efforts, very few sources of resistance have been identified in European cultivars (Martinez-Gomez et al., 2000). In North America, several cultivars including 'Stark Early Orange' (SEO), 'Goldrich', 'Harlayne', and 'Stella' have been found resistant to PPV-D and -M strains and used as parents in breeding programs in Europe (Martinez-Gomez et al., 2000; Krska et al., 2006; Karayiannis et al., 2008). Germplasm introductions from Central Asia have been suggested as a potential resource of resistance for North America (Zhebentyayeva et al., 2008). The Central Asian eco-geographical group is the oldest and

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### Abstract

The aim of this study was to identify the molecular and morphological characteristics of Turkish pea accessions (*Pisum sativum* L.). The genetic diversity among 130 Turkish landraces and 2 commercial varieties in a total of 132 pea accessions was assessed with 14 simple sequence repeat (SSR) markers. Forty-eight (48) polymorphic alleles were identified using 14 SSR markers. The pairwise Dice coefficients of similarity between accessions ranged from 0.091 to 0.960. The polymorphism information content (PIC) value ranged from 0.585 to 0.861. Overall, 50 morphological traits were evaluated. Cluster analysis was carried out on a matrix of Euclidean distances. The accessions were divided into three main groups. Principal component analysis (PCA) was used to identify the weight of each morphological characteristic. According to the results, the highest eigenvalue was observed in PC-I (13.88) followed by PC-II (11.42), and PC-III (7.32). The first fifteen PCs with eigenvalues > 1 explained 74.08% of the variability. The results showed that the molecular markers were useful and polymorphic, sufficient to allocate all the evaluated accessions. This research has provided significant insights into the genetic variability of Turkish pea accessions.

### Keywords

**Author Keywords:** breeding; cluster analysis; diversity; pea; polymorphism

**KeyWords Plus:** WILD-SPECIES ACCESSIONS; POPULATION-STRUCTURE; GERMLASM COLLECTION; DIVERSITY; MICROSATELLITE; CULTIVARS; VARIETIES; GENOTYPES

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## Determination of morphological variability of different pisum genotypes using principal component analysis

By: Hanci, F (Hanci, Fatih)<sup>[1]</sup>; Cebeci, E (Cebeci, Esra)<sup>[2]</sup>

**LEGUME RESEARCH**  
 Volume: 42 Issue: 2 Pages: 162-167  
 DOI: 10.18805/LR-438  
 Published: APR 2019  
 Document Type: Article  
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### Abstract

The aim of the study was to evaluate the variation among some Pisum genotypes using principal component analysis technique. The plant material covering wild pea accessions (*Pisum fulvum* L., *P. abyssinicum* L., *P. sativum* var. *elatius*), local varieties (*P. sativum* var. *sativum* L. and *P. sativum* var. *arvense* L.) and two commercial varieties were evaluated for 50 morphological traits. According to results, the first eleven principal component with Eigenvalues >1 contributed % 96.95 of the variability. The percentages of cumulative variation accounted for by each of the four principal component are 33.14%, 48.72%, 58.65%, and 66.88% respectively. Based on the principal coordinate analysis, five major groups were formed. In general, the diagram represented an obvious division between taxonomic groups except for *P. sativum* var. *sativum* and *P. sativum* var. *arvense* accessions.

### Keywords

**Author Keywords:** Characterization; Eigenvalue; Pea; Pisum  
**KeyWords Plus:** DIVERSITY

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## GENETIC DIVERSITY IN PAKISTANI SOYBEAN GENOTYPES AND NORTH AMERICAN ANCESTRAL LINES USING AGROMORPHOLOGICAL AND RAPD MARKERS

By: Jan, M (Jan, Masood)<sup>[1]</sup>; Nisar, M (Nisar, Mohammad)<sup>[2]</sup>; Ihsan, M (Ihsan, Mohammad)<sup>[2]</sup>; Farhatullah (Farhatullah)<sup>[1]</sup>; Jan, G (Jan, Gul)<sup>[3]</sup>; **Hanci, F (Hanci, Fatih)<sup>[4]</sup>**

**FRESENIUS ENVIRONMENTAL BULLETIN**  
Volume: 28 Issue: 4 Pages: 2927-2936  
Published: 2019  
Document Type: Article  
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### Abstract

In this study, 47 landraces, 16 genotypes from NARC collection and 18 ancestral lines of US germplasm, in total 81 Soybean [Glycine max (L.) Men] genotypes were assessed, to molecular and morphological characterization. The genetic diversity was evaluated with 20 Random Amplified Polymorphic DNA (RAPD) markers and 7 morphological characters. Chi-square test for homogeneity showed significant variability for all investigated characters. Only six RAPD primers were polymorphic that showed polymorphism in 29 out of 81 genotypes. The remaining primers were excluded from the molecular study. Pair-wise dissimilarity matrix for each primer followed by an average was calculated using bivariate data set generated from all loci of the primers. A total of 474 loci were detected with an average of 79 loci for each primer and 16.32 loci were amplified genotype. Cluster analysis showed that genetic diversity exists among all three groups (land races, collection from NARC and US ancestral). High level of genetic polymorphism was observed based on the six RAPD markers. A dendrogram was constructed using Unweighted Pair Groups of Arithmetic Means, which distinguished the genotypes into four major groups. Group-IA comprised eleven land races, two US genotypes and four NARC genotypes. Group IB comprised of eight US genotypes. Group-IIA comprised of one US genotypes and one land races genotype. Group-IIB comprised of one US genotype and one NARC genotype. Based on molecular study soybean genotypes code 8-7 (land races) and U14 (US genotype; Ralsoy) showed maximum genetic distance. This information can be utilized for genetic analysis, genotype identification from different sources and development of improved germplasm.

### Keywords

**Author Keywords:** Genetic diversity; Soybean; Morphology; RAPD  
**KeyWords Plus:** HORDEUM-VULGARE L; BARLEY; DIFFERENTIATION; POPULATION; ISOZYMES; PRIMERS; MAP

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By: Kus, Zeynel Abidin; Demir, Bunyamin; Eski, Ikbal; et al.

ERWERBS-OBSTBAU Volume: 59 Issue: 4 Pages: 291-299 Published: DEC 2017

5. **Estimation of the Colour Properties of Apples Varieties Using Neural Network**

By: Kus, Zeynel Abidin; Demir, Bunyamin; Eski, Ikbal; et al.

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